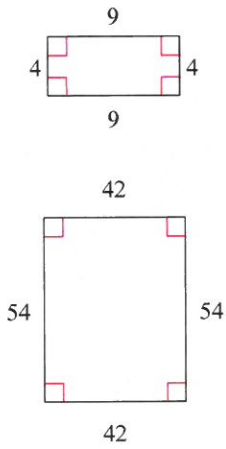


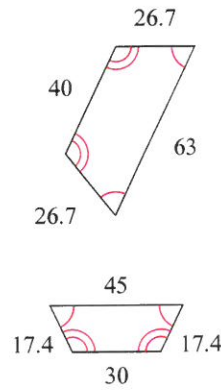
Study Guide Test 8 Graphing

State if the polygons are similar.

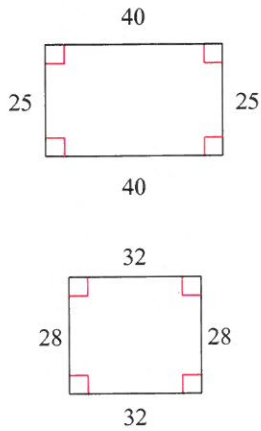
1)



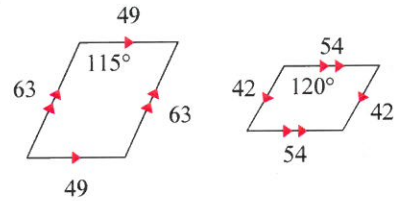
2)



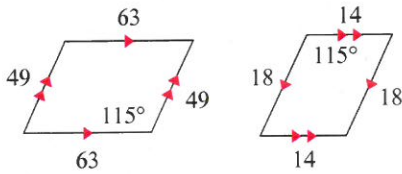
3)



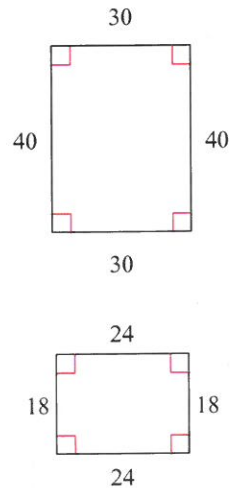
4)



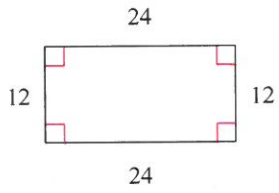
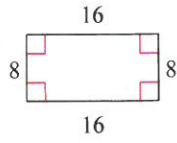
5)



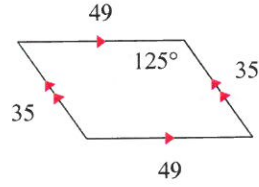
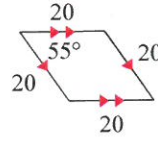
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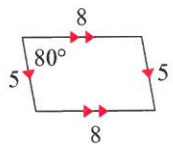
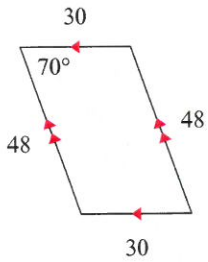
7)



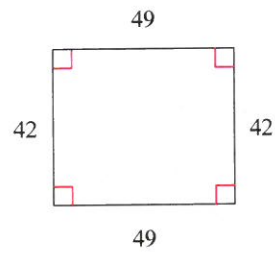
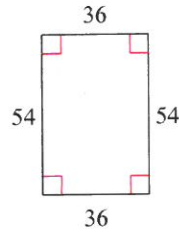
8)



9)

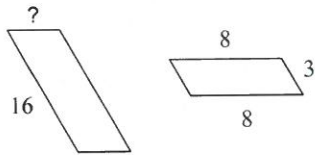


10)

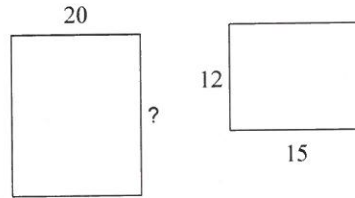


The polygons in each pair are similar. Find the missing side length.

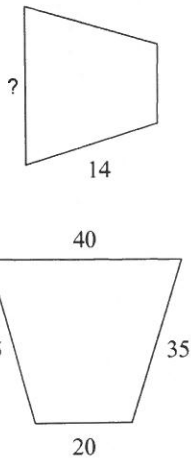
11)



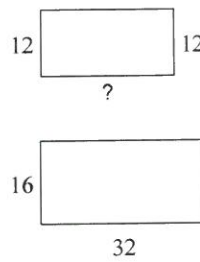
12)



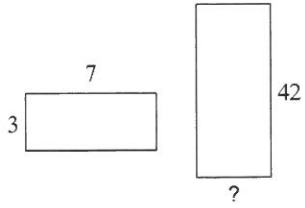
13)



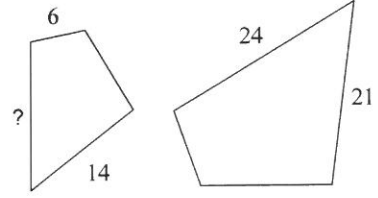
14)



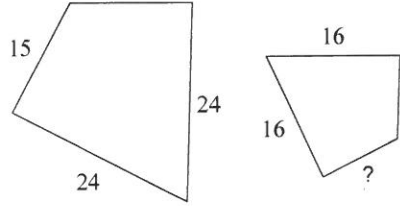
15)



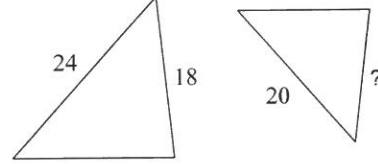
16)



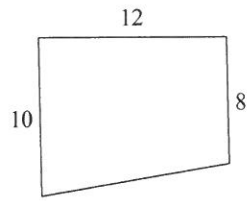
17)



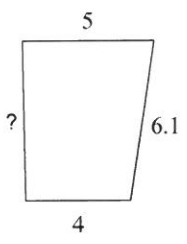
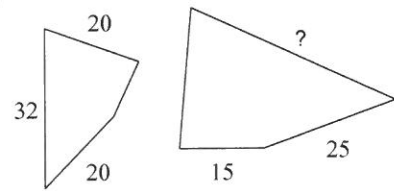
18)



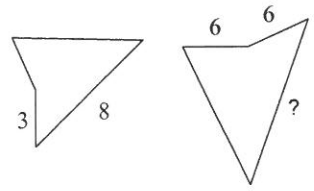
19)



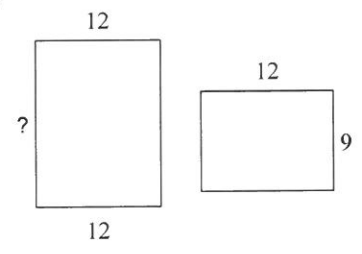
20)



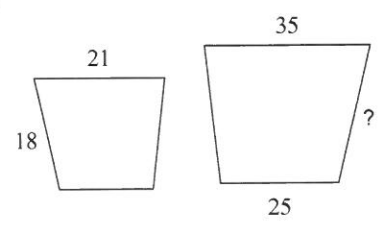
21)



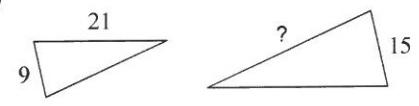
22)



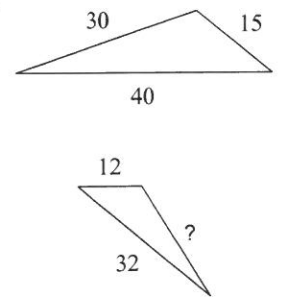
23)



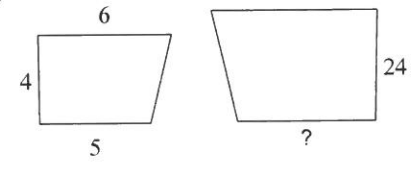
24)

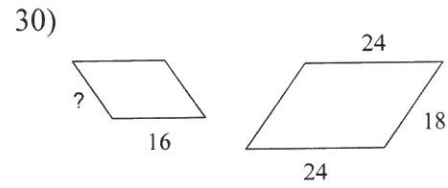
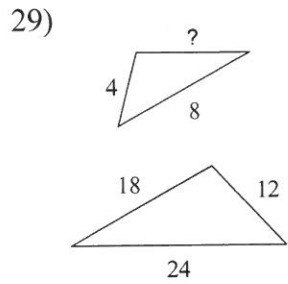
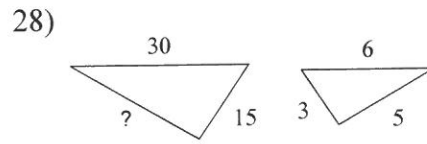
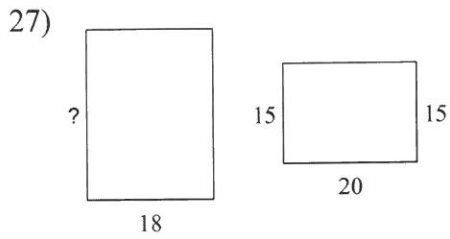


25)

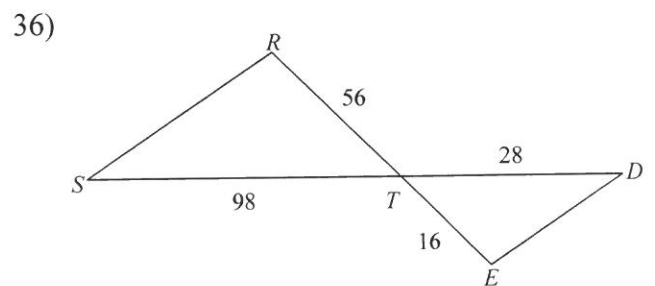
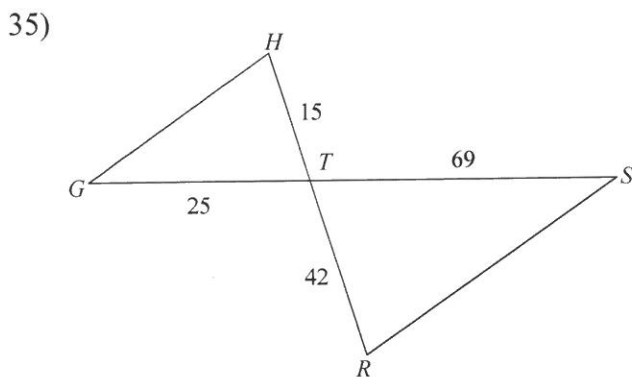
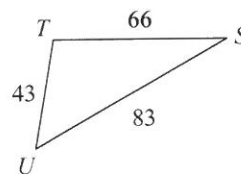
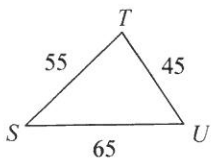
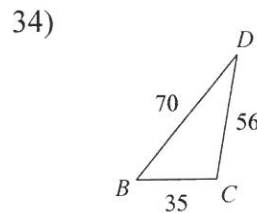
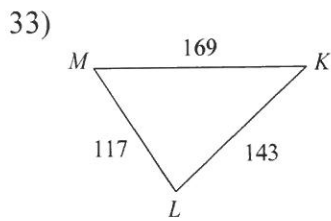
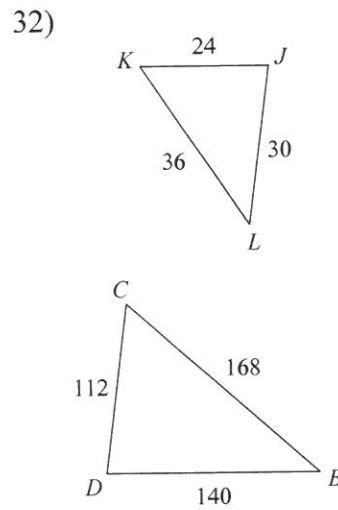
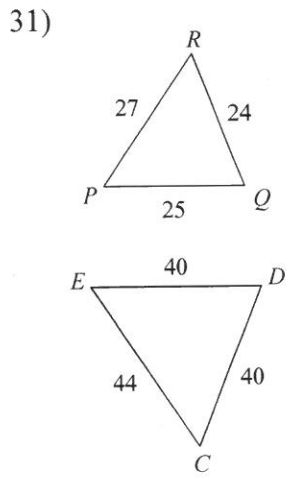


26)

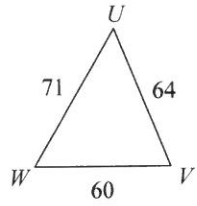
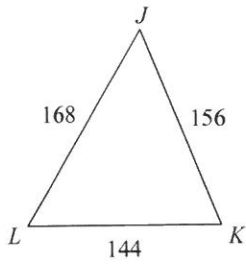




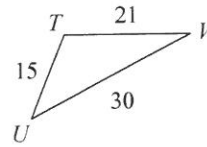
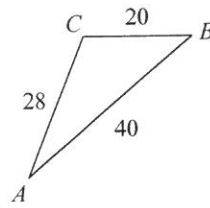
State if the triangles in each pair are similar.



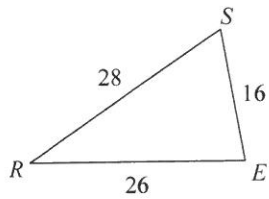
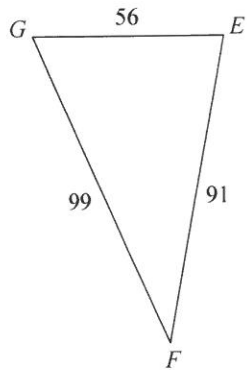
37)



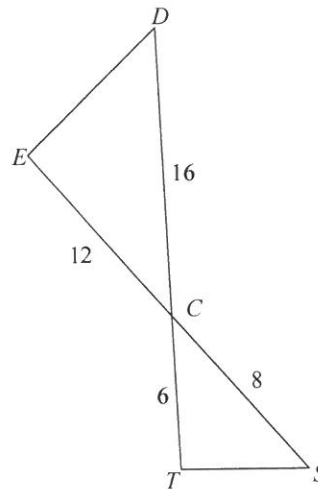
38)



39)

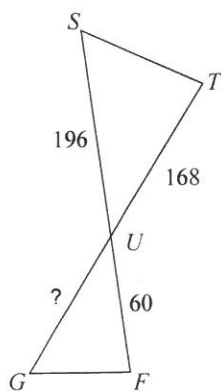


40)

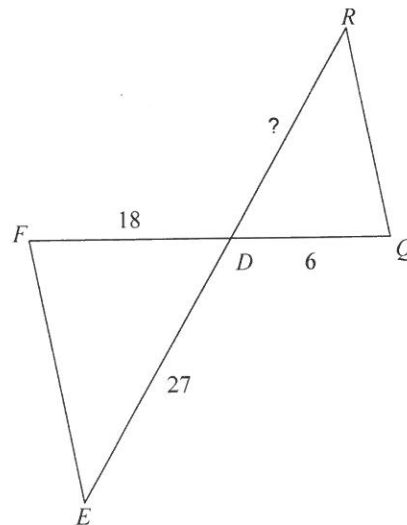


Find the missing length. The triangles in each pair are similar.

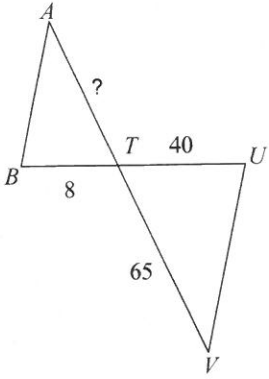
41)



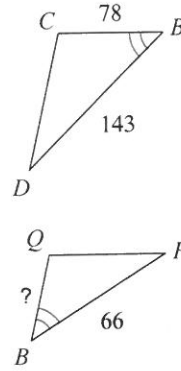
42)



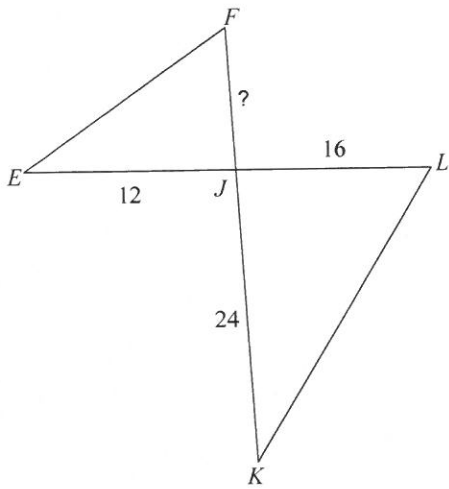
43)



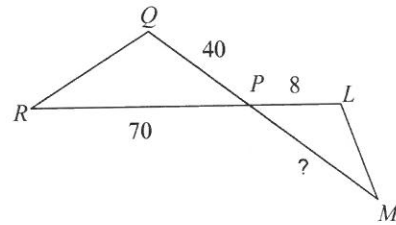
44)



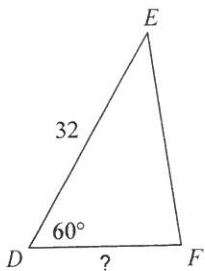
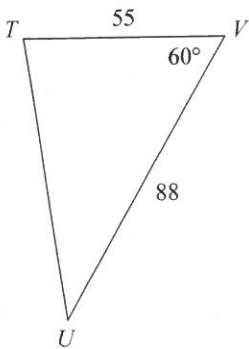
45)



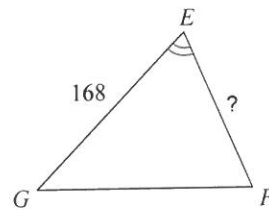
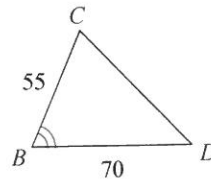
46)

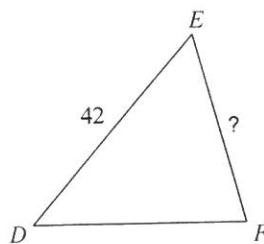
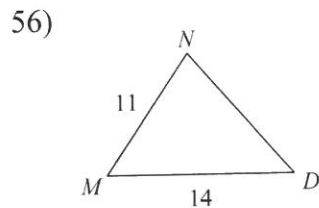
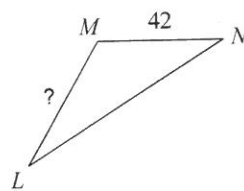
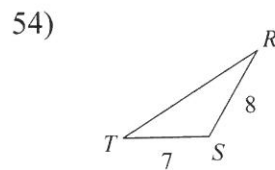
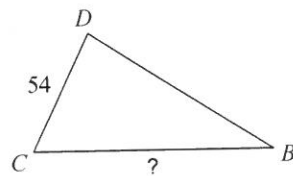
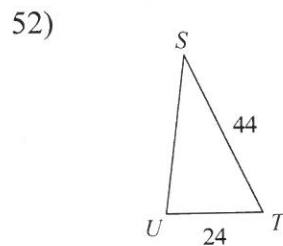
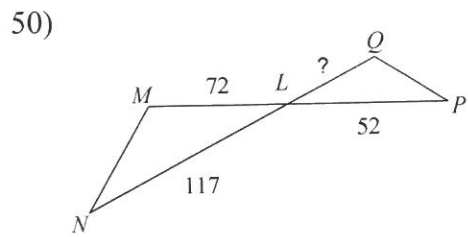
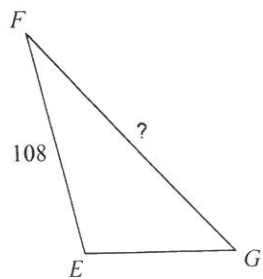
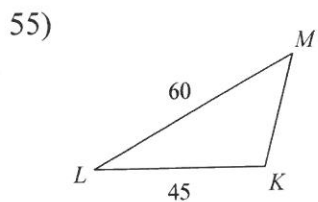
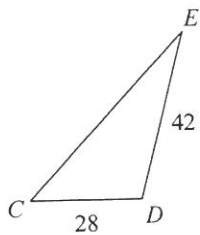
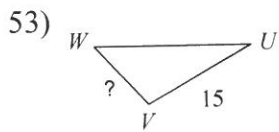
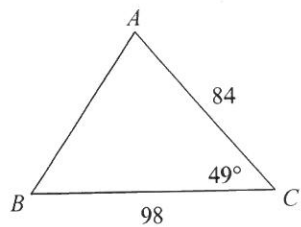
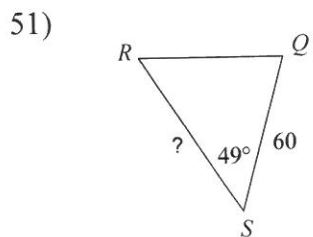
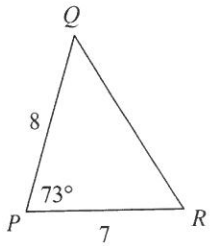
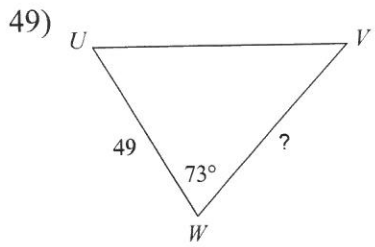


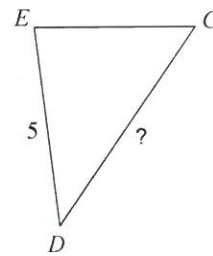
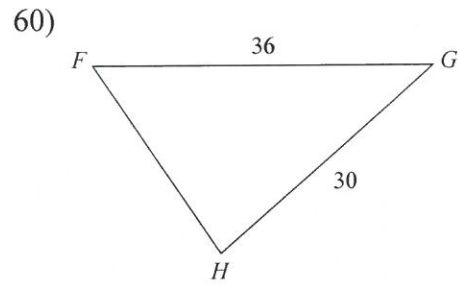
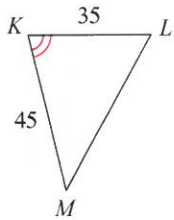
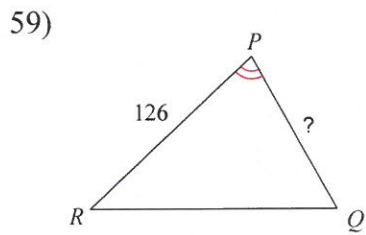
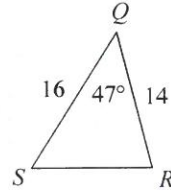
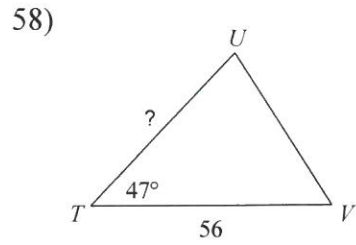
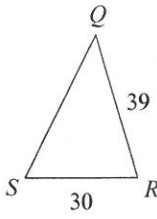
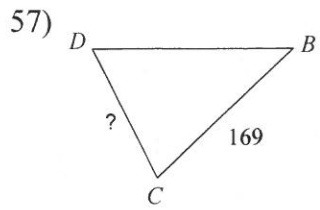
47)



48)

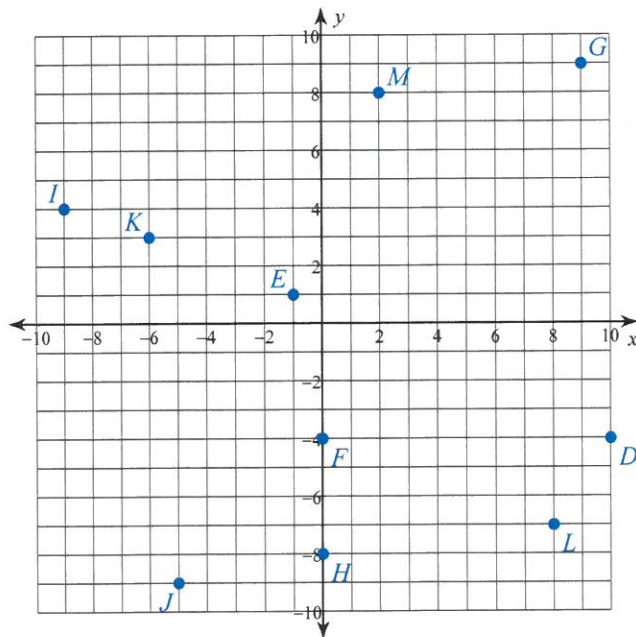




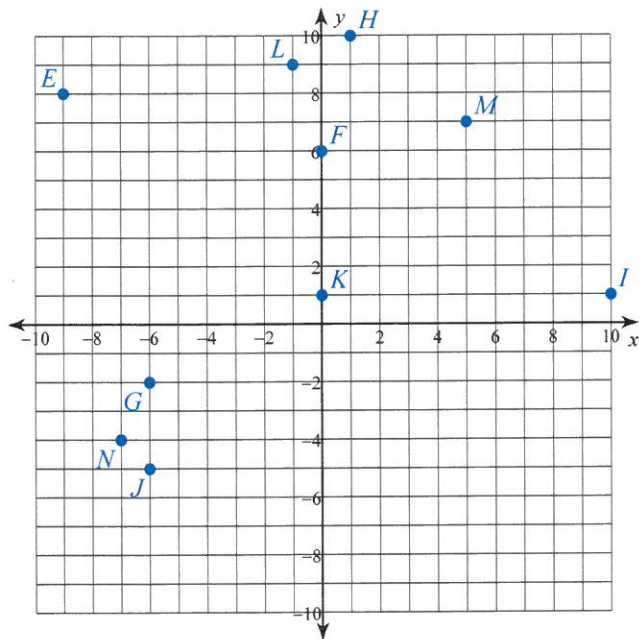


State the coordinates of each point.

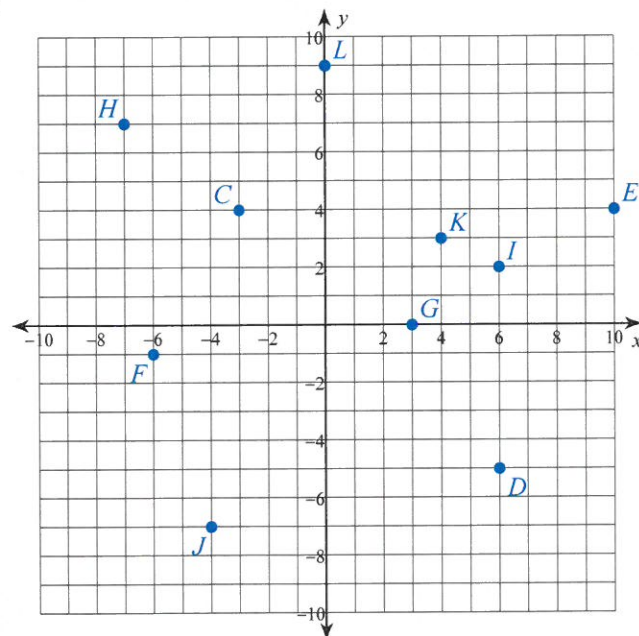
61)



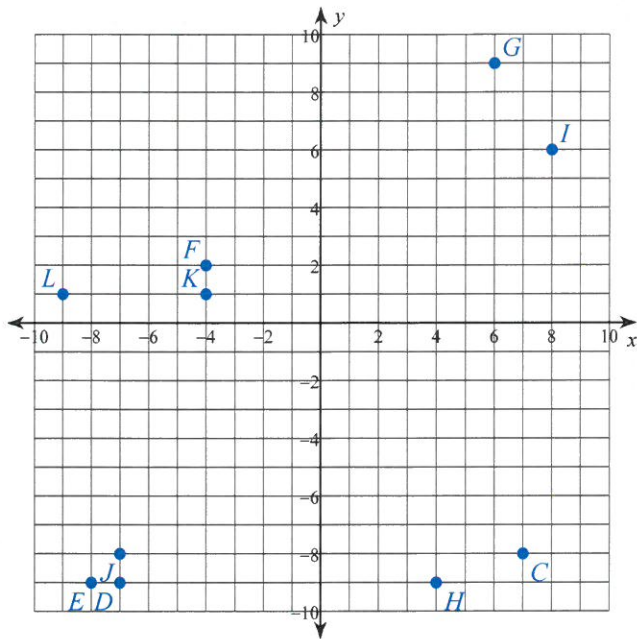
62)



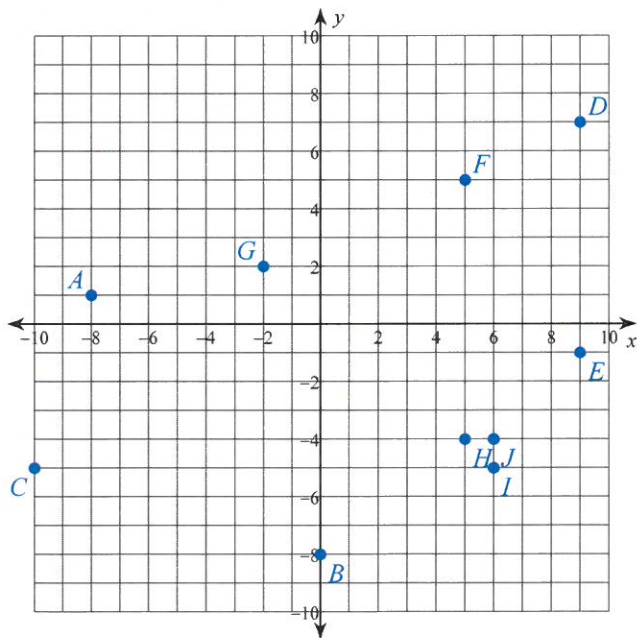
63)



64)

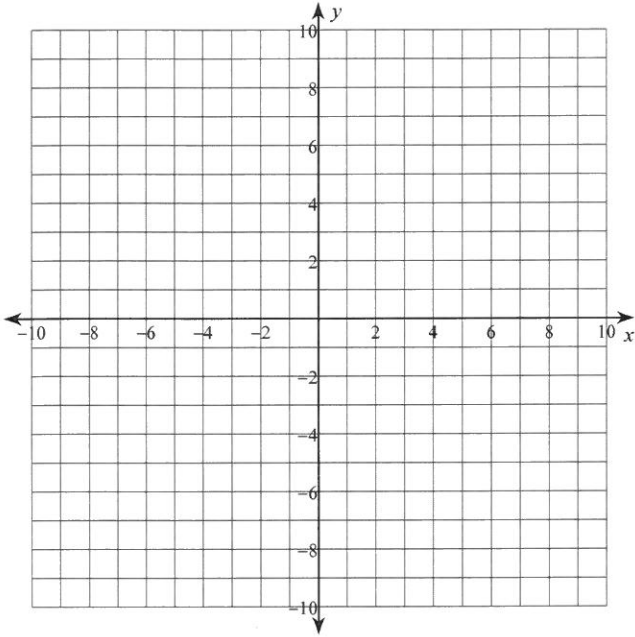


65)

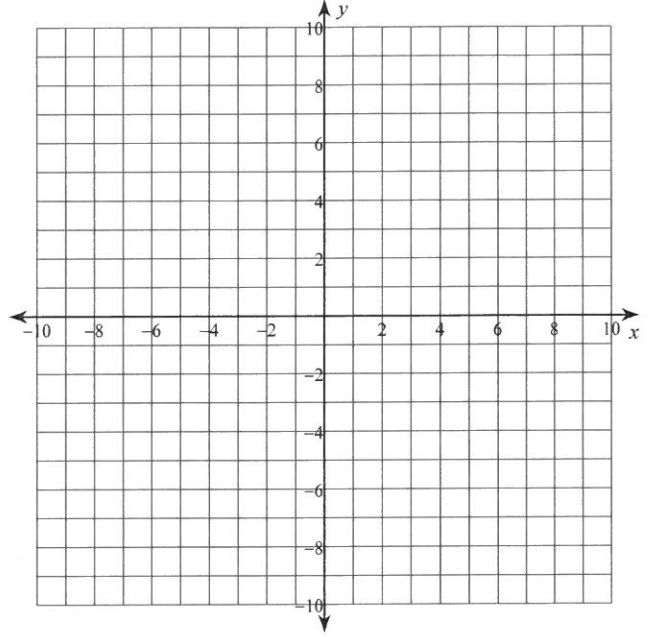


Plot each point.

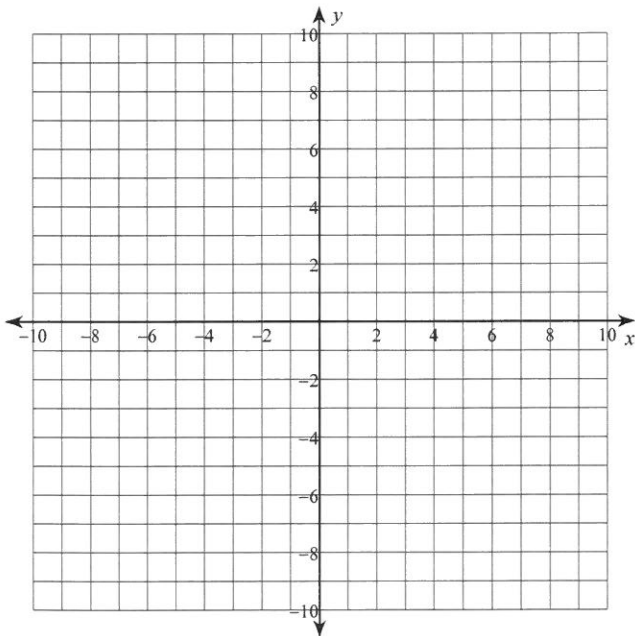
- 66) $D(-2, -6)$ $E(10, 5)$ $F(0, -6)$
 $G(-3, -4)$ $H(6, 9)$ $I(-7, -7)$
 $J(-7, -5)$ $K(6, 5)$ $L(-3, 2)$
 $M(7, 8)$



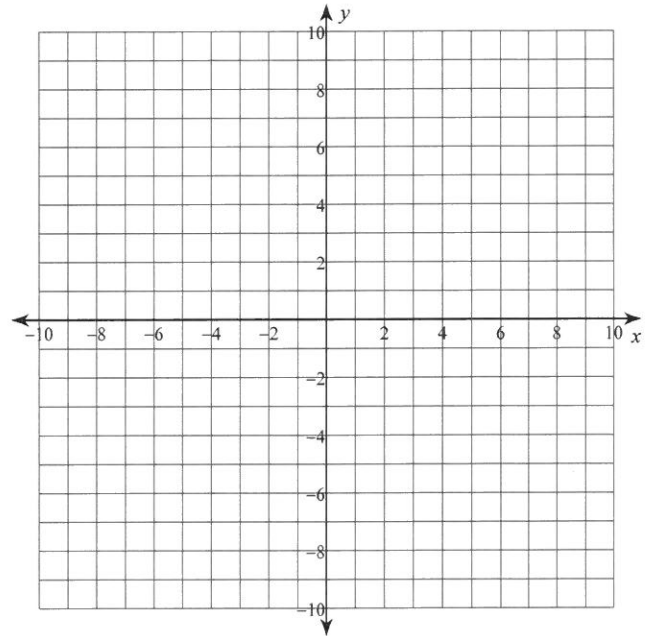
- 67) $A(6, -7)$ $B(1, 6)$ $C(-10, -4)$
 $D(-8, 3)$ $E(0, 1)$ $F(-8, -6)$
 $G(7, 10)$ $H(0, 9)$ $I(9, -3)$
 $J(4, -6)$



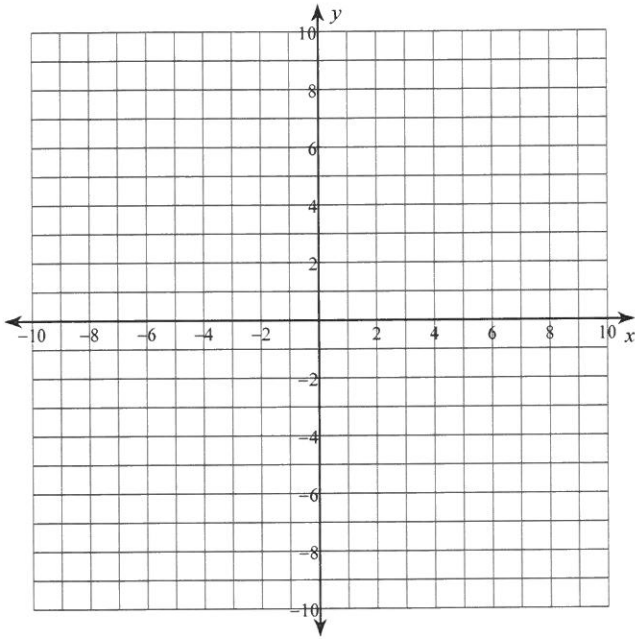
- 68) $B(-6, 9)$ $C(-4, 5)$ $D(-2, -2)$
 $E(6, 3)$ $F(-8, -5)$ $G(3, 8)$
 $H(-8, -4)$ $I(-8, 8)$ $J(4, -8)$
 $K(-4, 1)$



- 69) $M(2, 2)$ $L(-2, 4)$ $K(9, 7)$
 $J(6, 3)$ $I(0, 3)$ $H(10, 5)$
 $G(-8, 5)$ $F(5, 0)$ $E(-1, 7)$
 $D(-10, 8)$

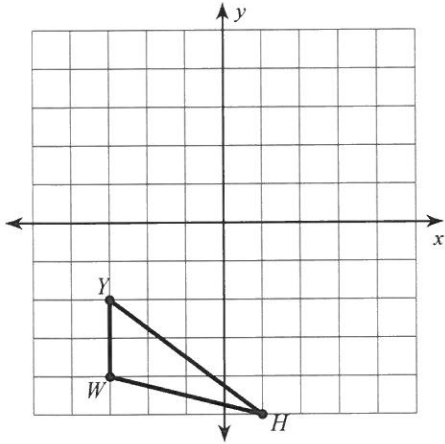


- 70) $D(-2, 8)$ $E(9, 5)$ $F(-3, 10)$
 $G(-1, -1)$ $H(4, 5)$ $I(-10, 5)$
 $J(7, -2)$ $K(6, -4)$ $L(1, 9)$
 $M(5, -4)$

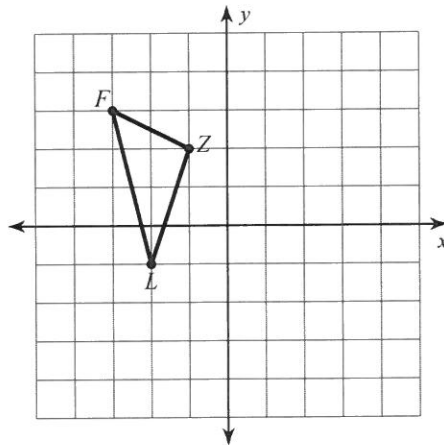


Graph the image of the figure using the transformation given.

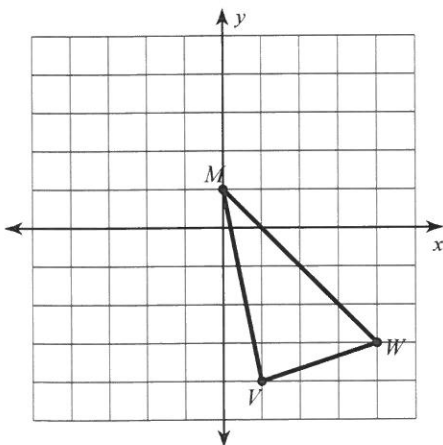
- 71) rotation 90° clockwise about the origin



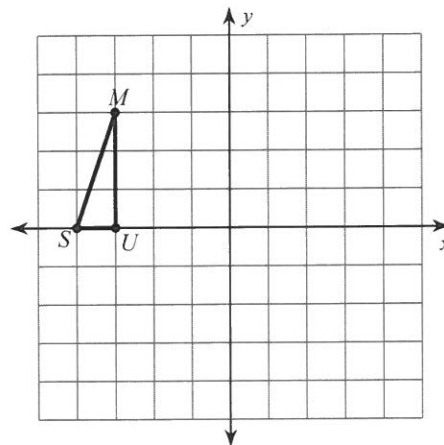
- 72) reflection across the x-axis



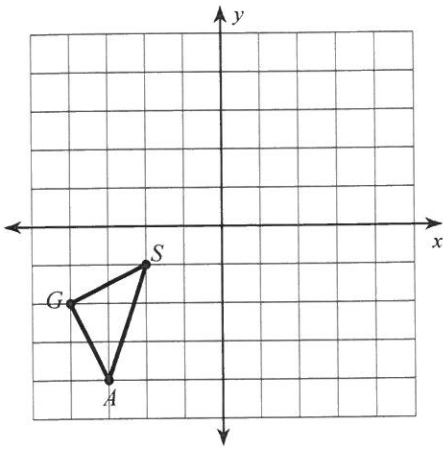
- 73) rotation 180° about the origin



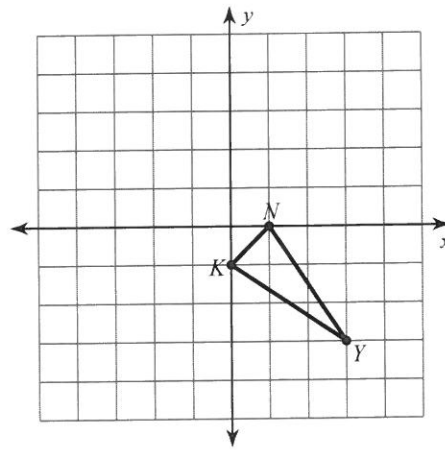
- 74) rotation 180° about the origin



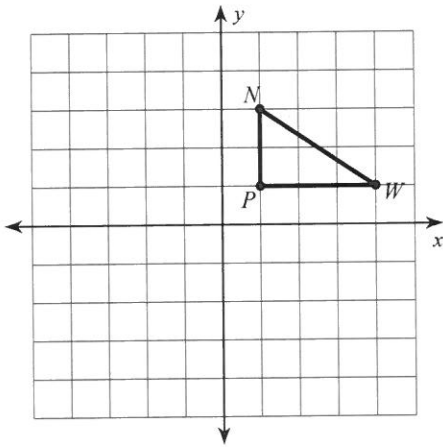
75) reflection across the y-axis



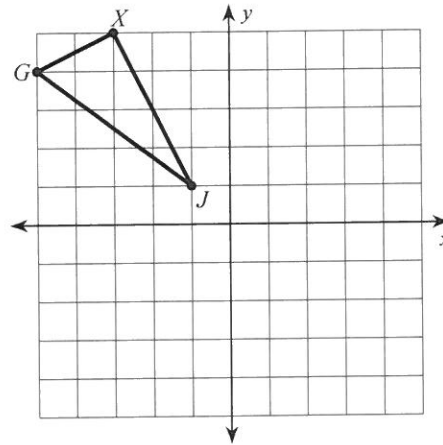
76) rotation 90° clockwise about the origin



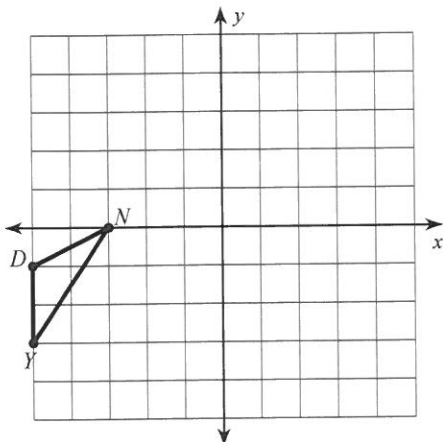
77) reflection across the x-axis



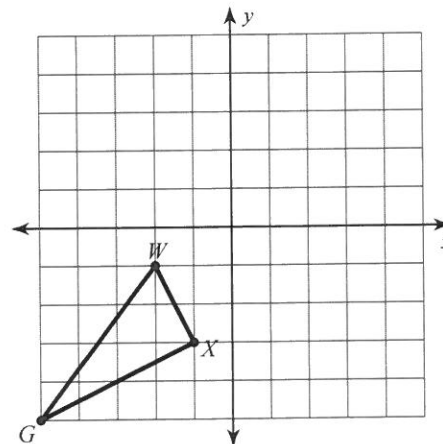
78) translation: 2 units down



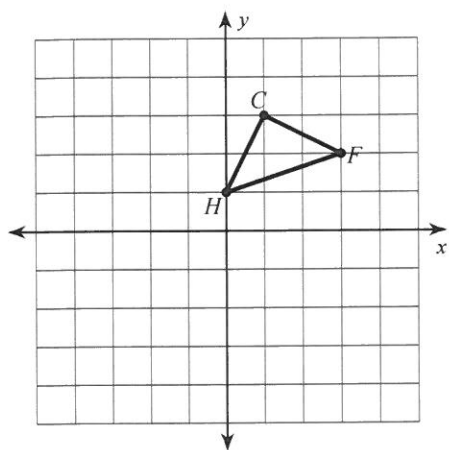
79) translation: 1 unit right and 2 units up



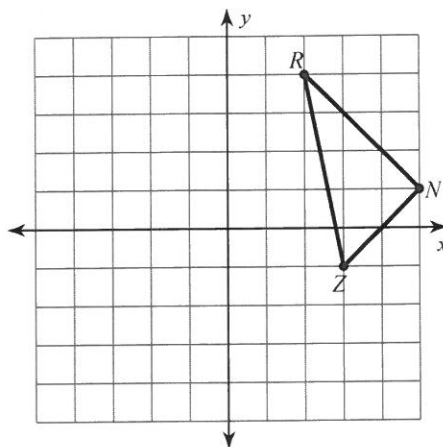
80) reflection across the y-axis



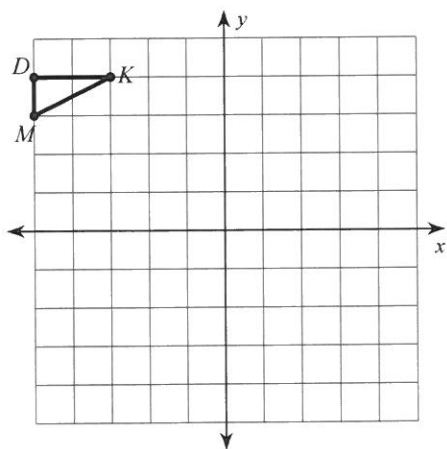
81) translation: 1 unit right and 4 units down



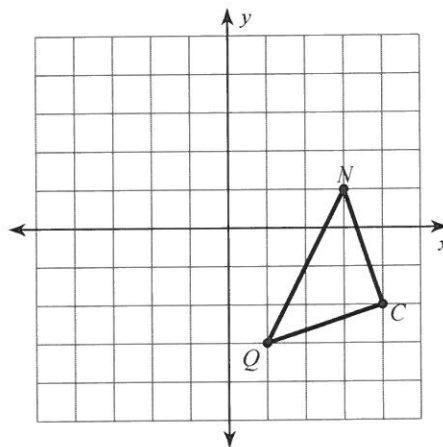
82) translation: 7 units left



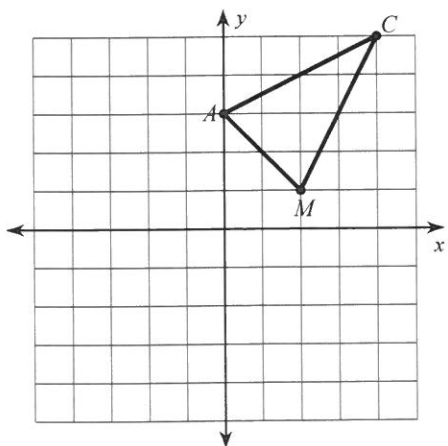
83) reflection across the x-axis



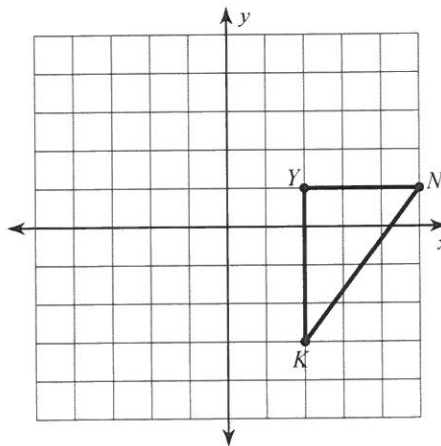
84) reflection across the y-axis



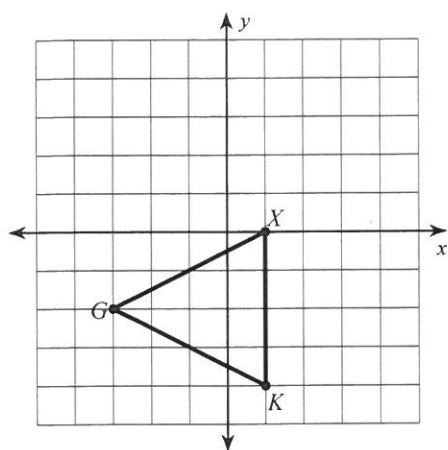
85) rotation 90° clockwise about the origin



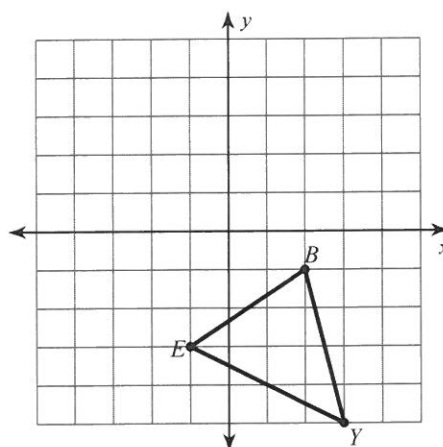
86) reflection across the x-axis



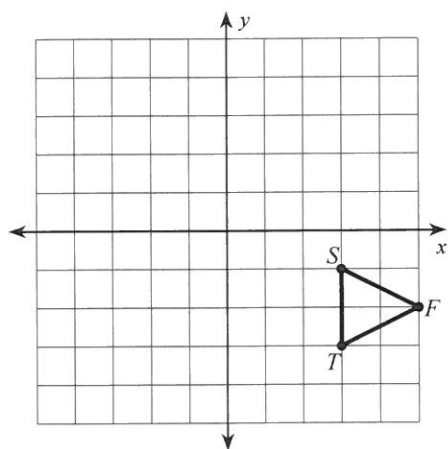
87) rotation 90° clockwise about the origin



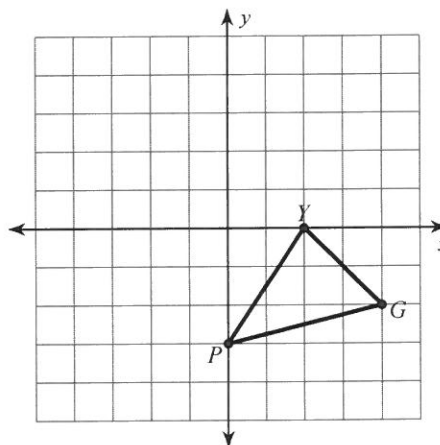
88) translation: 1 unit left and 1 unit up



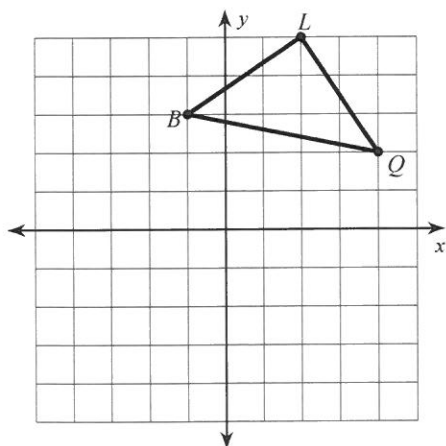
89) reflection across the y-axis



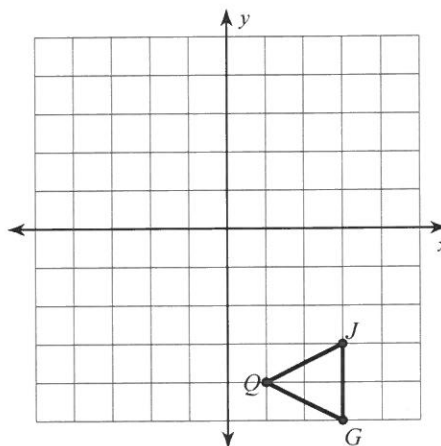
90) translation: 1 unit right and 2 units up



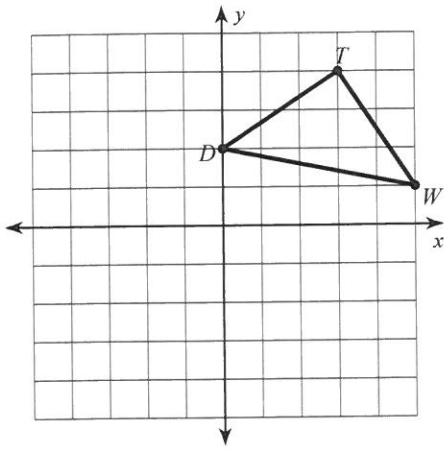
91) rotation 180° about the origin



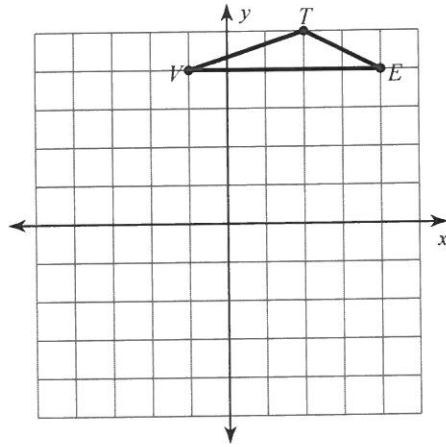
92) rotation 90° clockwise about the origin



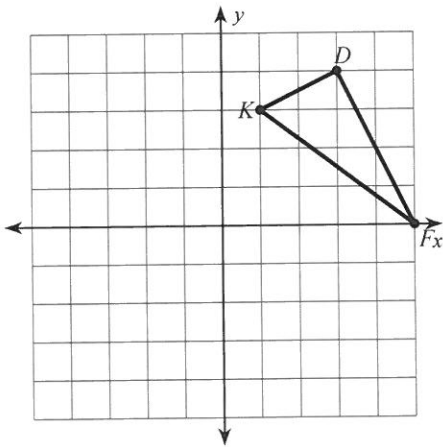
93) translation: 1 unit left and 3 units down



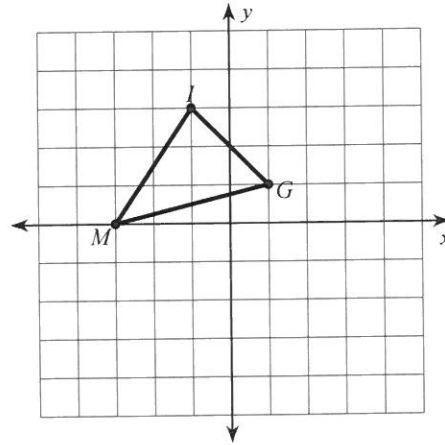
94) reflection across the x-axis



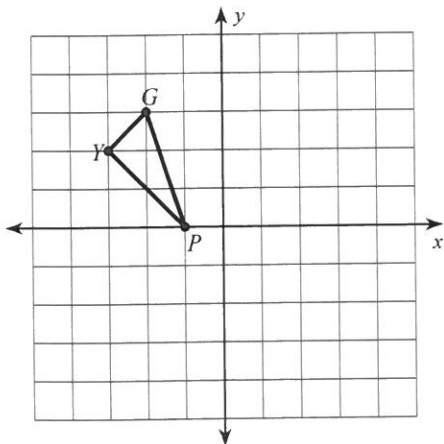
95) translation: 2 units down



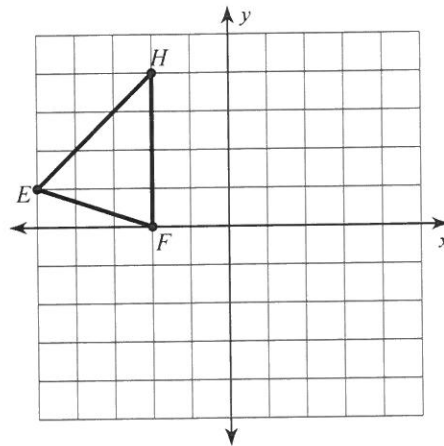
96) translation: 2 units left and 2 units down



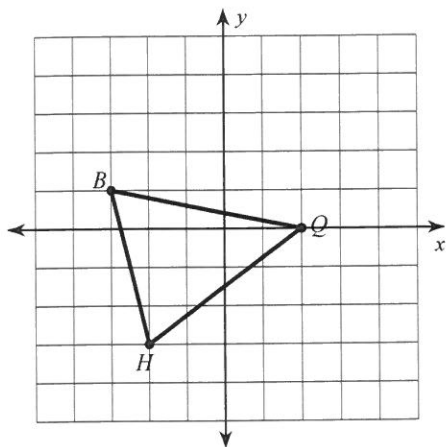
97) rotation 90° clockwise about the origin



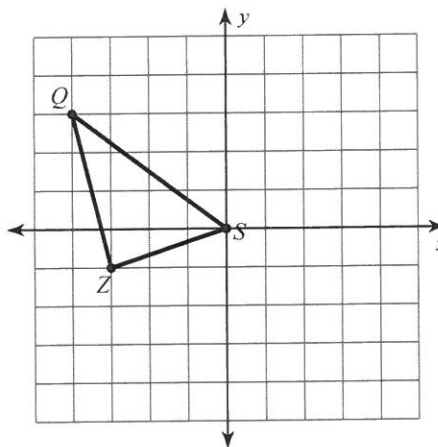
98) reflection across the x-axis



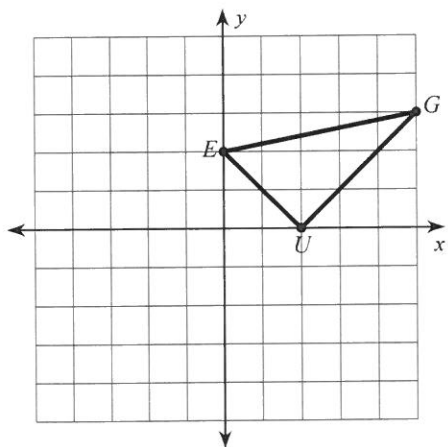
99) rotation 90° clockwise about the origin



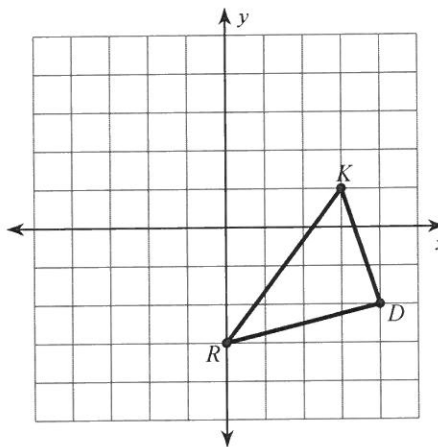
100) rotation 180° about the origin



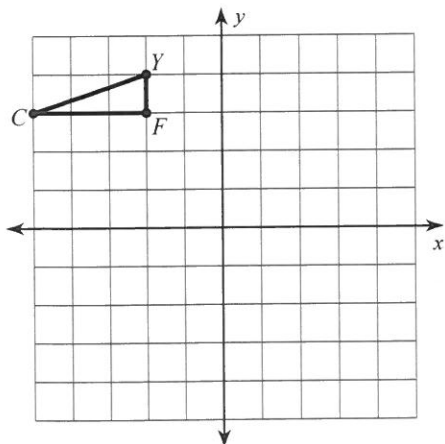
101) reflection across the x-axis



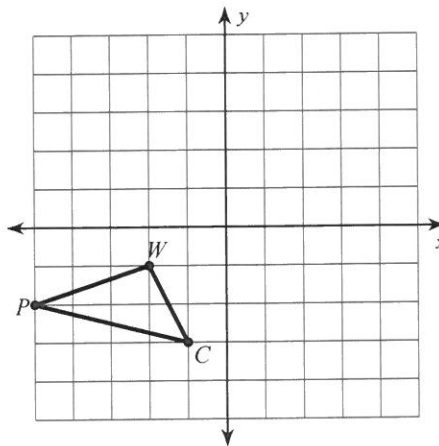
102) translation: 1 unit left and 1 unit down



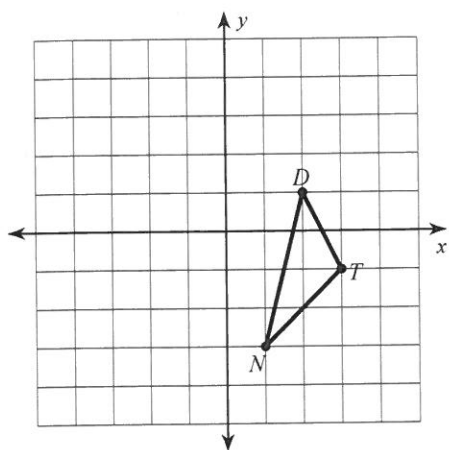
103) rotation 90° clockwise about the origin



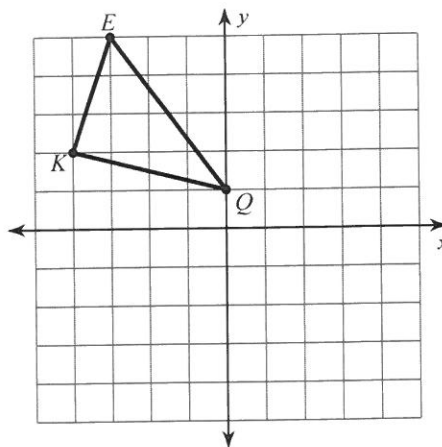
104) reflection across the x-axis



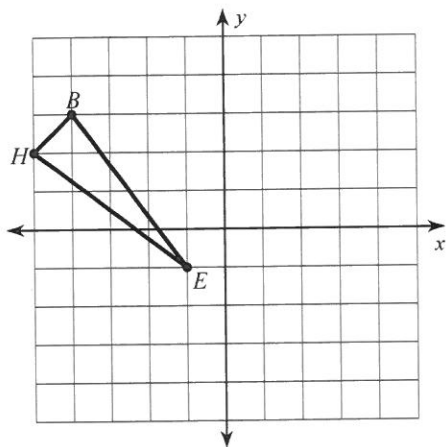
105) translation: 1 unit left and 1 unit down



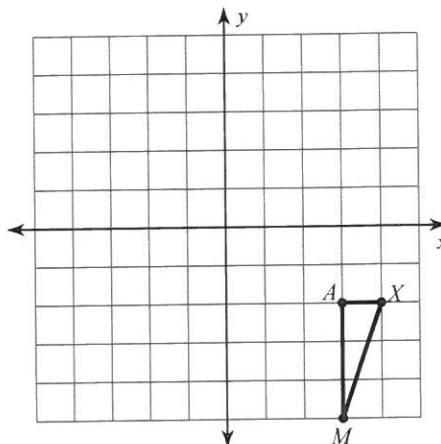
106) translation: 3 units right and 4 units down



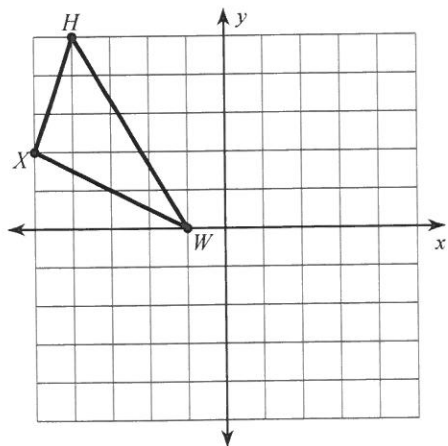
107) reflection across the y-axis



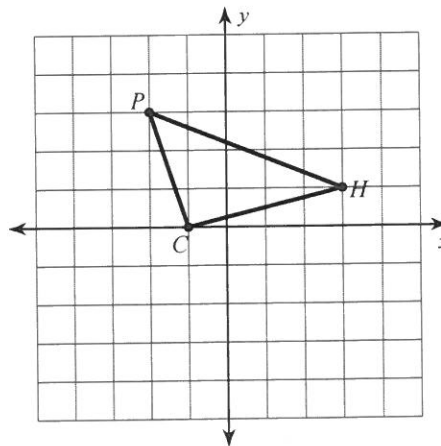
108) reflection across the x-axis



109) reflection across the y-axis

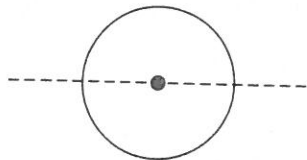


110) rotation 90° clockwise about the origin

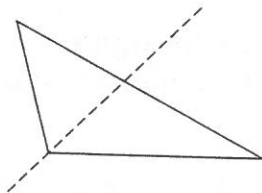


Determine whether each dashed line appears to be a line of symmetry.

111.



112.

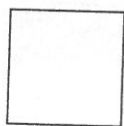


113.

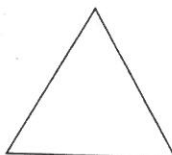


Find all the lines of symmetry in each regular polygon.

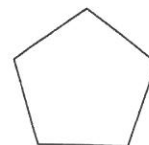
114.



115.



116.

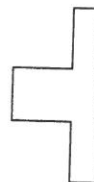


Draw each cut-out figure as it would look unfolded.

117.



118.



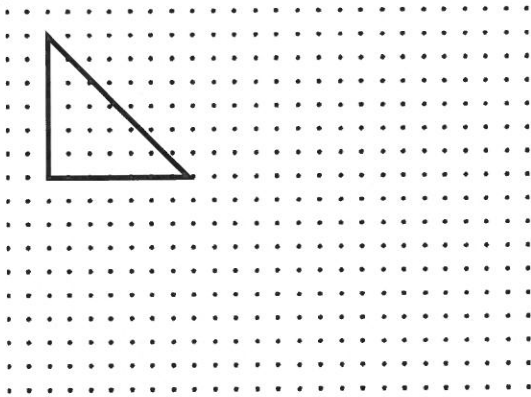
119. Draw a line of symmetry for the word

DID

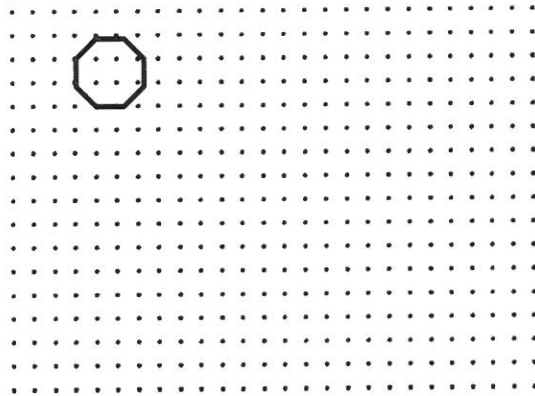
120. How do you know if a figure has line symmetry?

Try to make a tessellation using each polygon.

121.

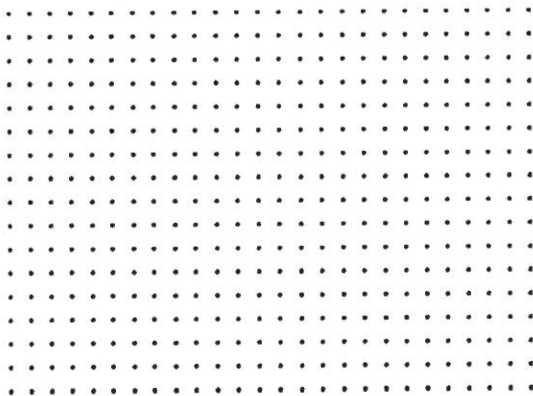


122.

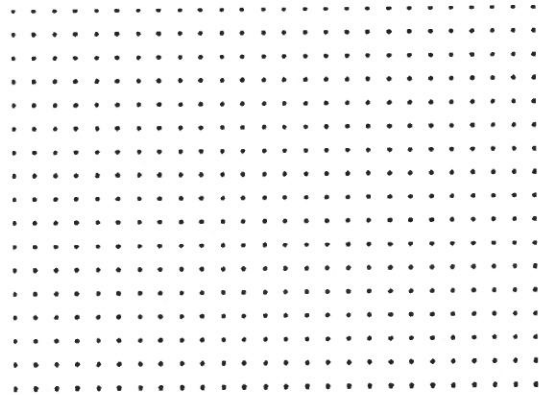


Tessellate each plane using the shapes given.

123. Squares and Octagons.

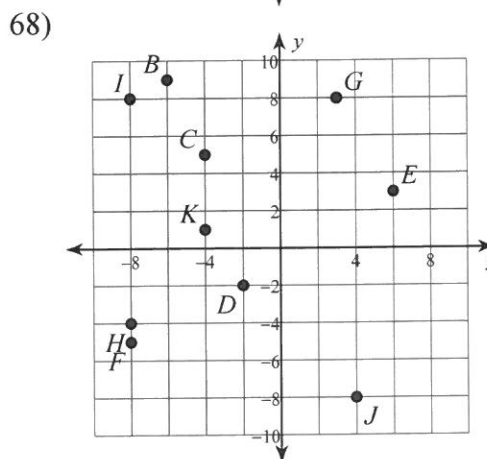
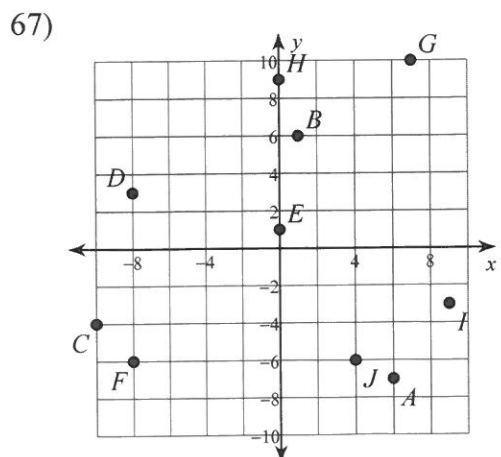
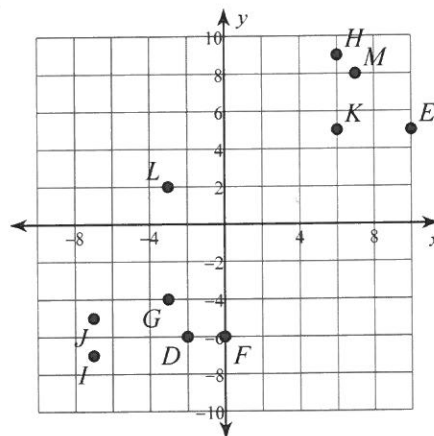


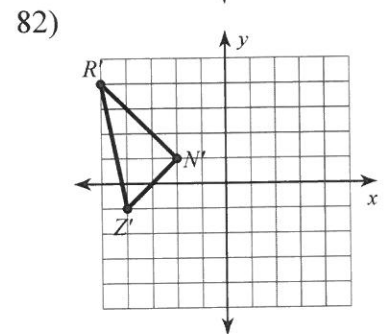
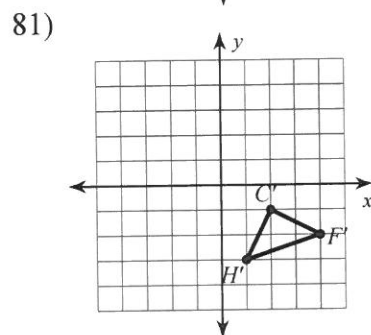
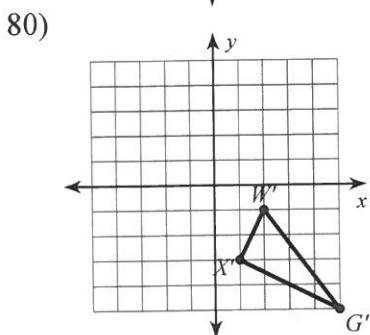
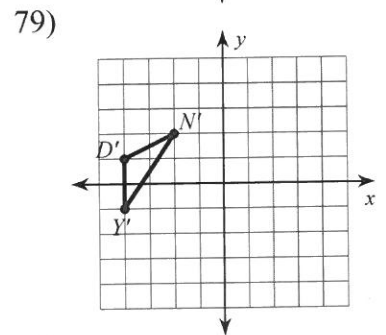
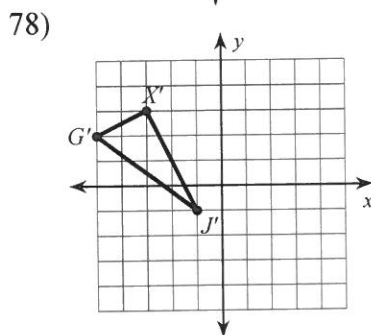
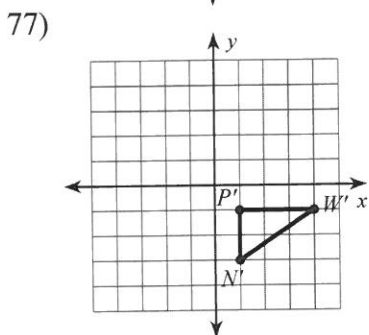
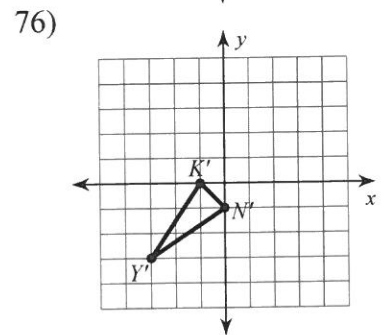
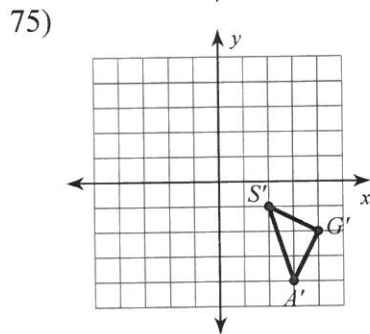
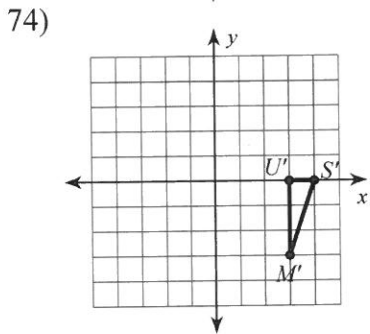
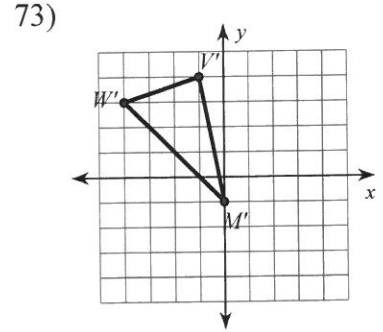
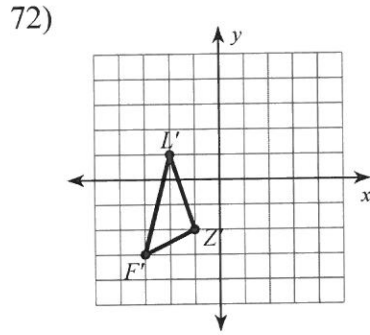
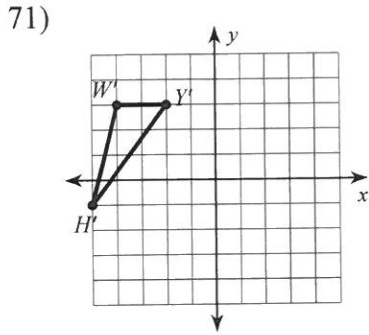
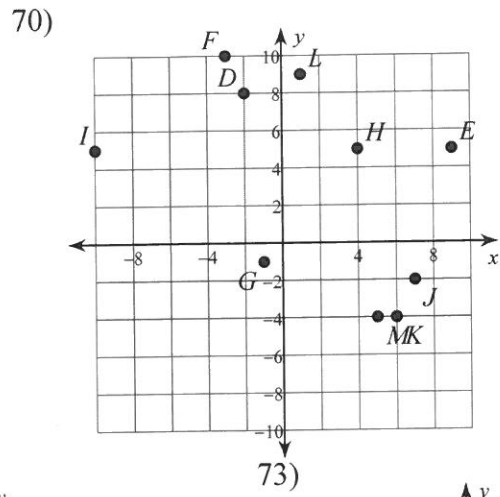
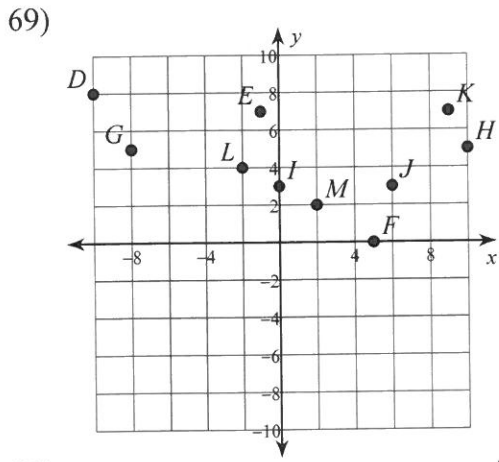
124. Triangles and Trapezoids.

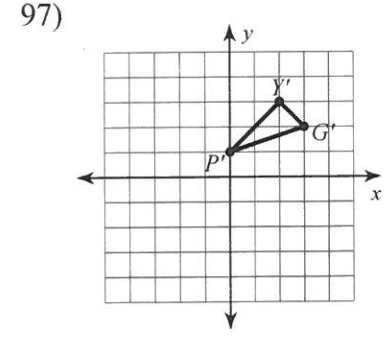
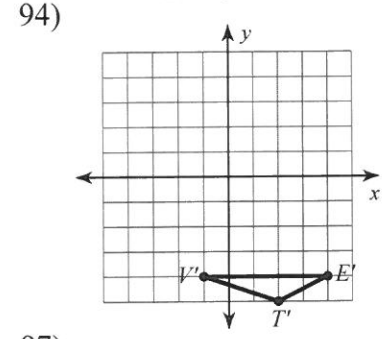
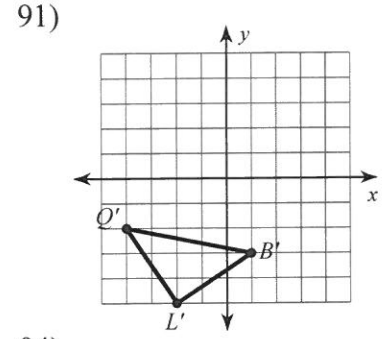
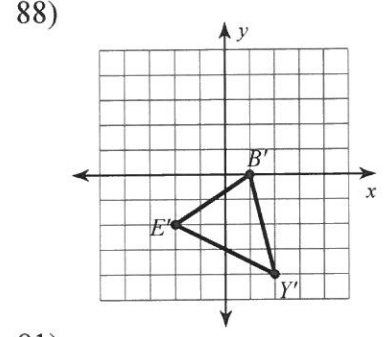
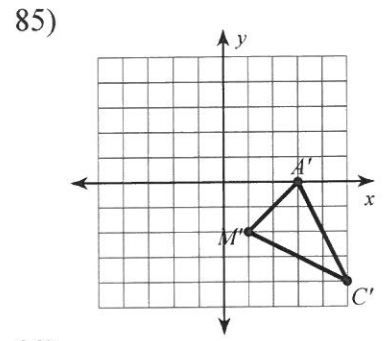
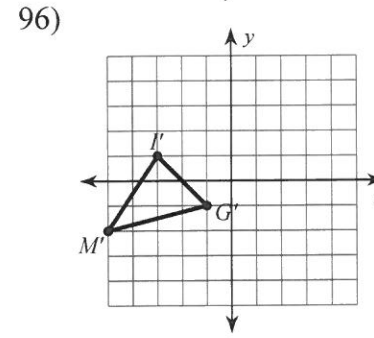
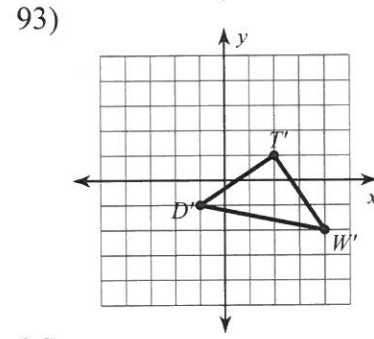
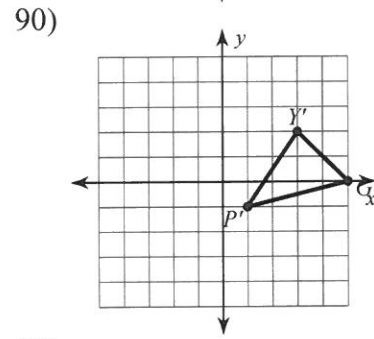
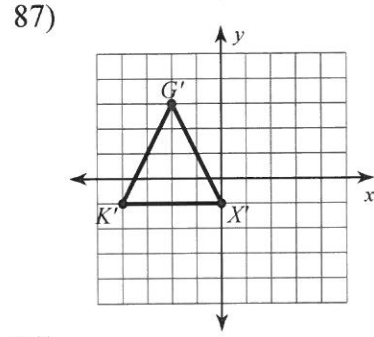
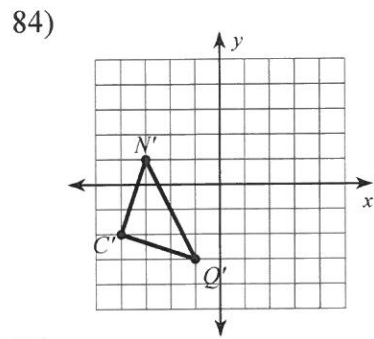
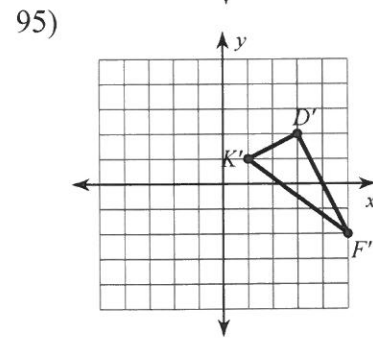
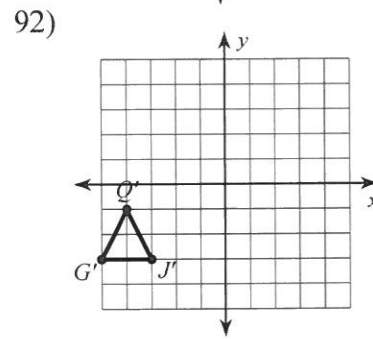
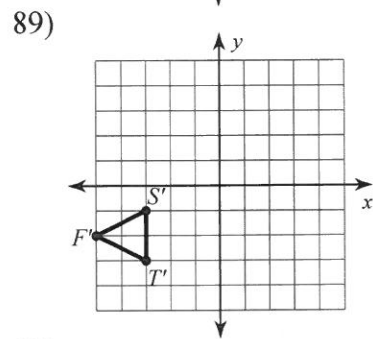
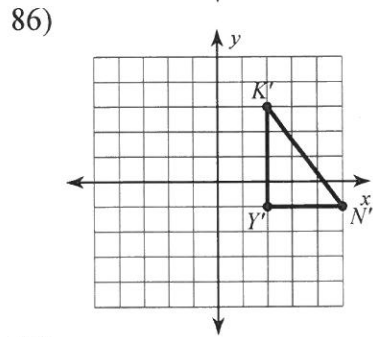
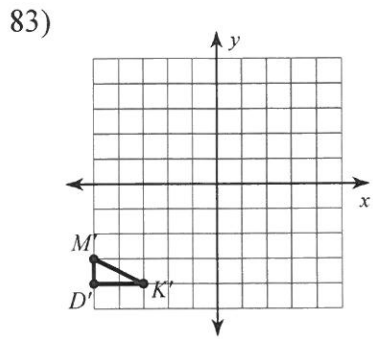


Answers to Study Guide Test 8 Graphing

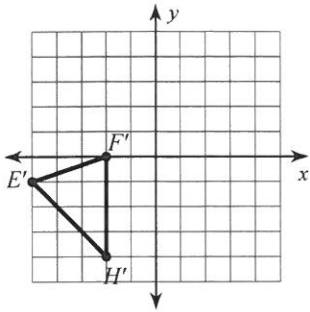
- | | | | |
|--------------------------------------|-----------------|--|----------------|
| 1) not similar | 2) not similar | 3) not similar | 4) not similar |
| 5) similar | 6) similar | 7) similar | 8) not similar |
| 9) not similar | 10) not similar | 11) 6 | 12) 25 |
| 13) 16 | 14) 24 | 15) 18 | 16) 16 |
| 17) 10 | 18) 15 | 19) 6 | 20) 40 |
| 21) 16 | 22) 16 | 23) 30 | 24) 35 |
| 25) 24 | 26) 30 | 27) 24 | 28) 25 |
| 29) 6 | 30) 12 | 31) not similar | 32) similar |
| 33) similar | 34) not similar | 35) not similar | 36) similar |
| 37) not similar | 38) similar | 39) not similar | 40) similar |
| 41) 70 | 42) 9 | 43) 13 | 44) 36 |
| 45) 8 | 46) 14 | 47) 20 | 48) 132 |
| 49) 56 | 50) 32 | 51) 70 | 52) 99 |
| 53) 10 | 54) 48 | 55) 144 | 56) 33 |
| 57) 130 | 58) 49 | 59) 98 | 60) 6 |
| 61) $M(2, 8)$ $L(8, -7)$ $K(-6, 3)$ | | 62) $E(-9, 8)$ $F(0, 6)$ $G(-6, -2)$ | |
| $J(-5, -9)$ $I(-9, 4)$ $H(0, -8)$ | | $H(1, 10)$ $I(10, 1)$ $J(-6, -5)$ | |
| $G(9, 9)$ $F(0, -4)$ $E(-1, 1)$ | | $K(0, 1)$ $L(-1, 9)$ $M(5, 7)$ | |
| $D(10, -4)$ | | $N(-7, -4)$ | |
| 63) $C(-3, 4)$ $D(6, -5)$ $E(10, 4)$ | | 64) $C(7, -8)$ $D(-7, -9)$ $E(-8, -9)$ | |
| $F(-6, -1)$ $G(3, 0)$ $H(-7, 7)$ | | $F(-4, 2)$ $G(6, 9)$ $H(4, -9)$ | |
| $I(6, 2)$ $J(-4, -7)$ $K(4, 3)$ | | $I(8, 6)$ $J(-7, -8)$ $K(-4, 1)$ | |
| $L(0, 9)$ | | $L(-9, 1)$ | |
| 65) $J(6, -4)$ $I(6, -5)$ $H(5, -4)$ | | 66) | |
| $G(-2, 2)$ $F(5, 5)$ $E(9, -1)$ | | | |
| $D(9, 7)$ $C(-10, -5)$ $B(0, -8)$ | | | |
| $A(-8, 1)$ | | | |



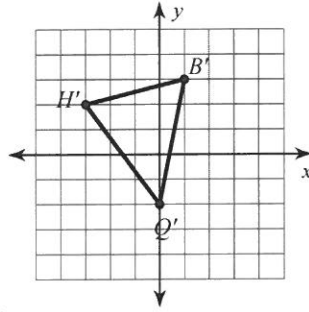




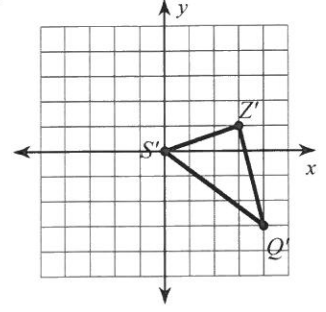
98)



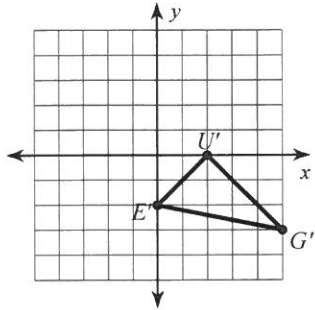
99)



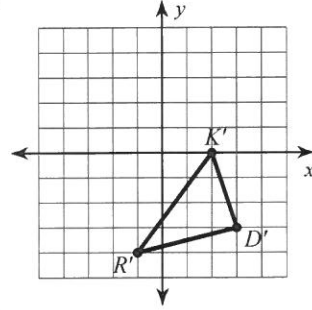
100)



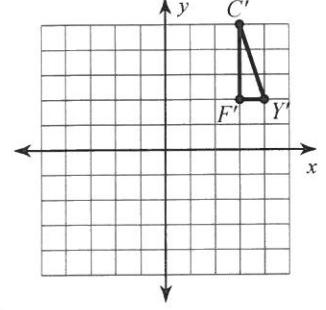
101)



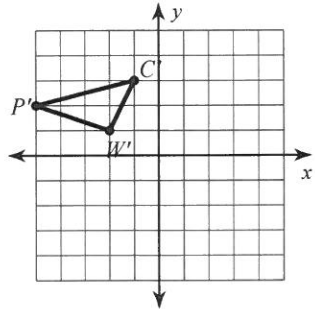
102)



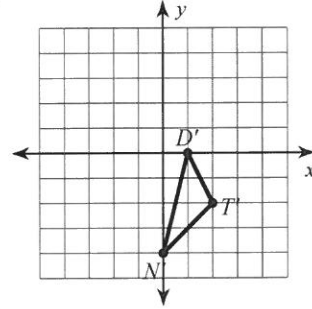
103)



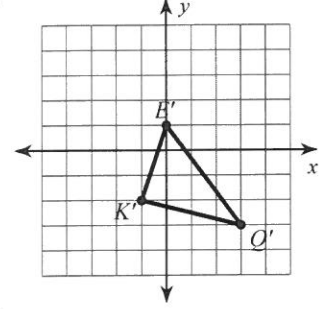
104)



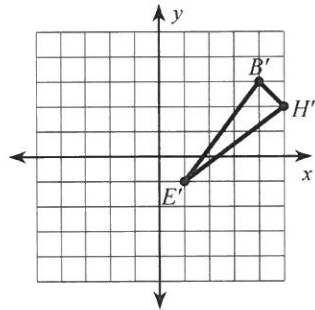
105)



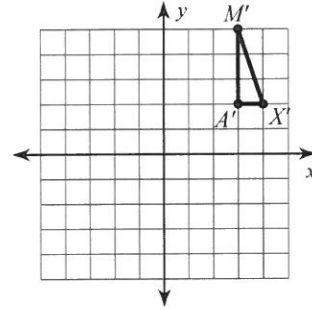
106)



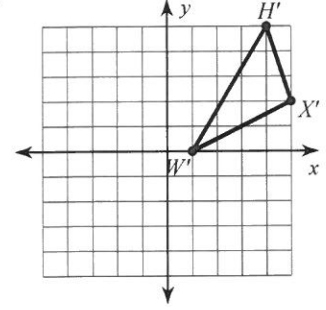
107)



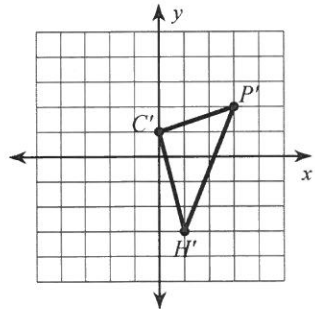
108)



109)

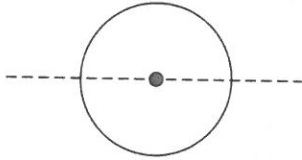


110)



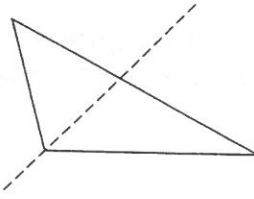
Determine whether each dashed line appears to be a line of symmetry.

111.



it is a line of symmetry

112.



it is not a line of symmetry

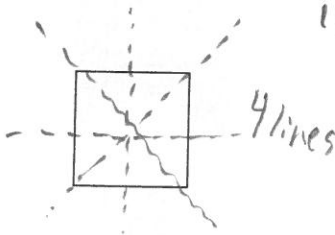
113.



it is a line of symmetry

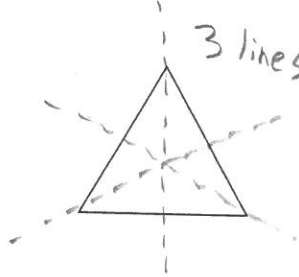
Find all the lines of symmetry in each regular polygon.

114.



4 lines

115.



3 lines

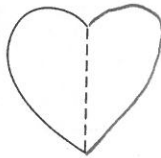
116.



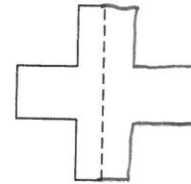
5 lines

Draw each cut-out figure as it would look unfolded.

117.



118.



119. Draw a line of symmetry for the word

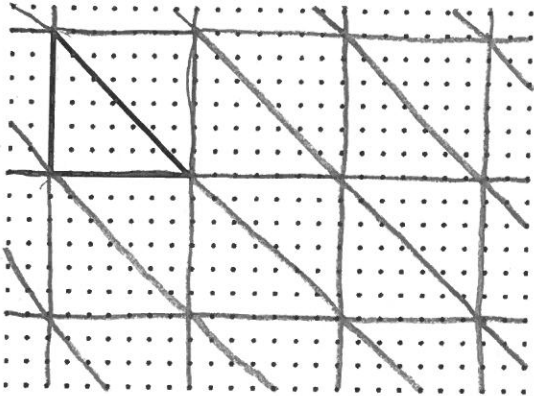


120. How do you know if a figure has line symmetry?

If you can fold the figure in half and the two parts are the exact same it has line symmetry.

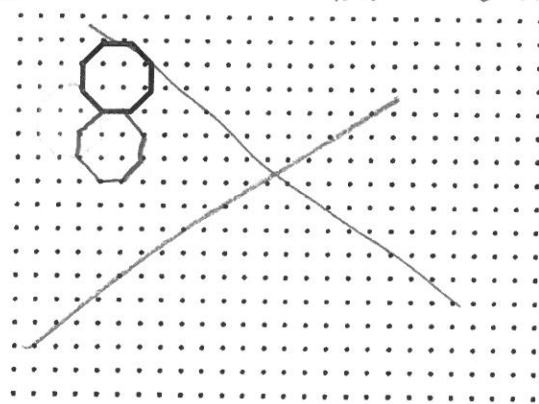
Try to make a tessellation using each polygon.

121.



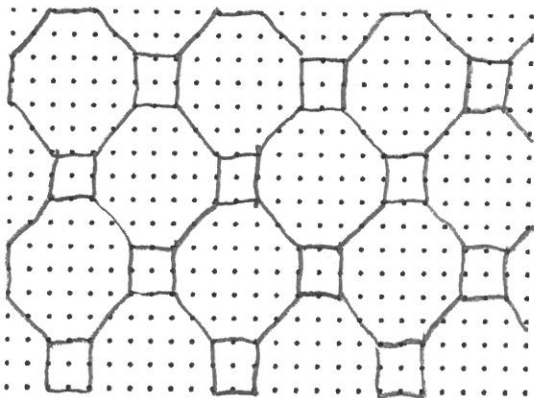
122.

can't be made into a tessellation



Tessellate each plane using the shapes given.

123. Squares and Octagons.



124. Triangles and Trapezoids.

