Geometry Name_____

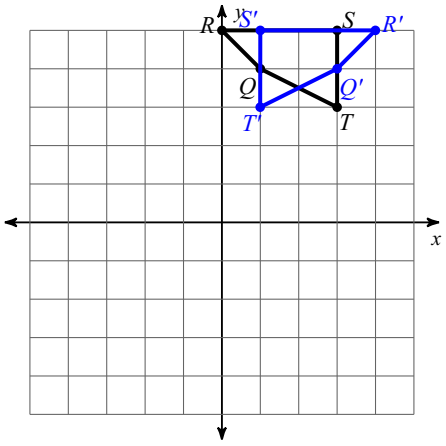


# Additional Review - MUST SHOW WORK

Date_____ Period____

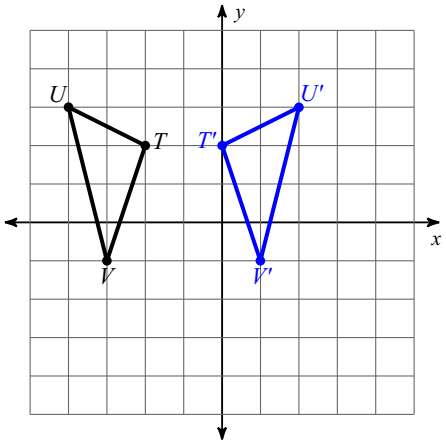
**Write a rule to describe each transformation.**

1)



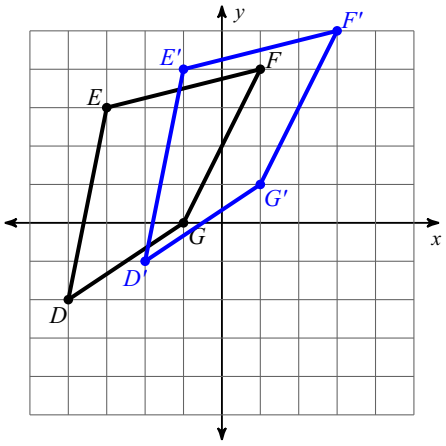

A) rotation 90° clockwise about the origin
B) translation: $(x, y) \rightarrow (x + 1, y - 1)$
C) translation: $(x, y) \rightarrow (x - 5, y - 3)$
D) reflection across $x = 2$

2)



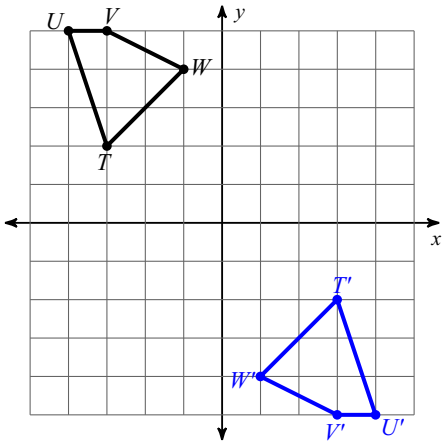

A) reflection across $x = -1$
B) translation: $(x, y) \rightarrow (x + 5, y - 4)$
C) translation: $(x, y) \rightarrow (x + 6, y - 1)$
D) rotation 180° about the origin

3)




A) rotation 180° about the origin
B) translation: $(x, y) \rightarrow (x + 2, y + 1)$
C) reflection across the x-axis
D) reflection across $x = -2$

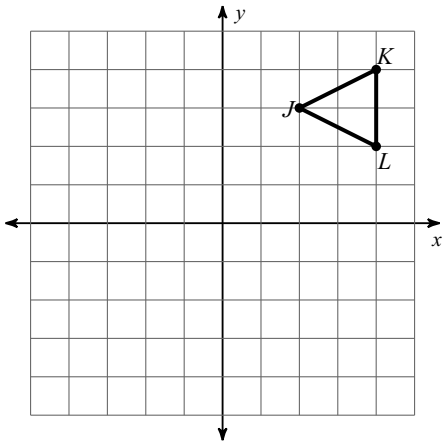
4)



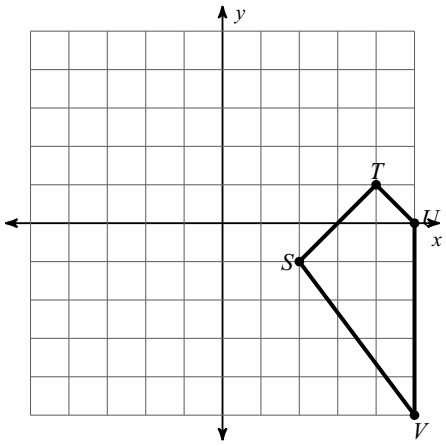

A) translation: $(x, y) \rightarrow (x - 1, y - 7)$
B) translation: $(x, y) \rightarrow (x + 1, y - 7)$
C) rotation 180° about the origin
D) reflection across $y = 3$

**Graph the image of the figure using the transformation given.**

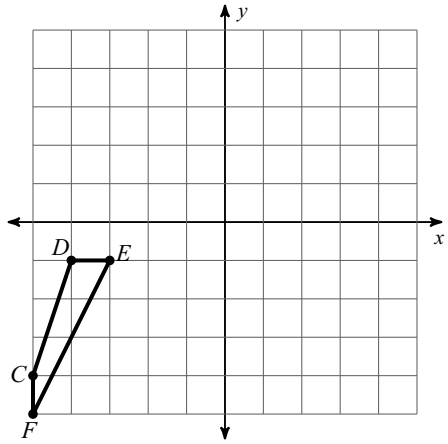
5) rotation 180° about the origin



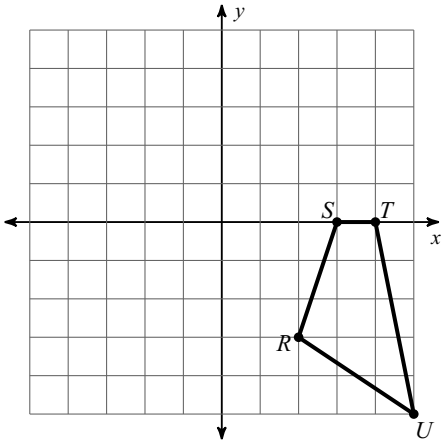

6) reflection across the y-axis




7) reflection across $y = -3$

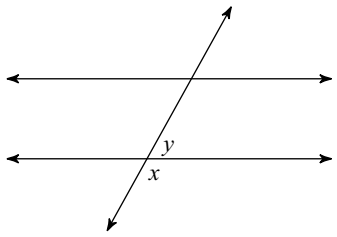



8) translation: $(x, y) \rightarrow (x - 4, y + 5)$



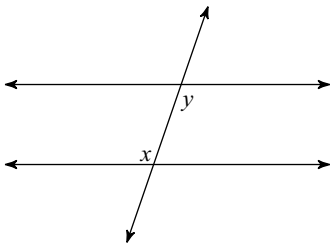

**Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, vertical, or adjacent.**

9)



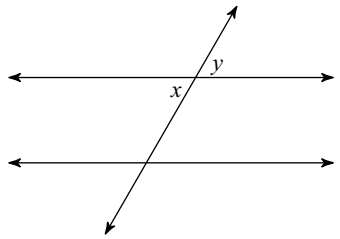

A) corresponding
B) alternate exterior
C) adjacent
D) alternate interior

10)



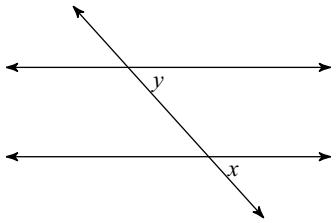

A) consecutive interior
B) alternate exterior
C) alternate interior
D) corresponding

11)




A) alternate exterior
B) alternate interior
C) vertical
D) corresponding

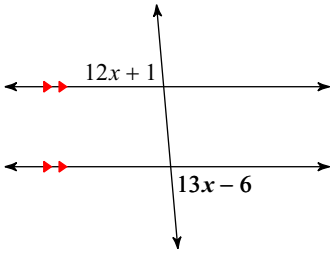
12)



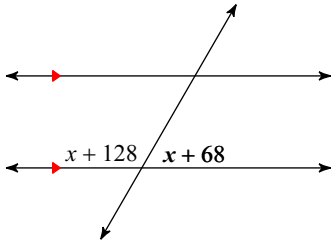

A) alternate exterior
B) alternate interior
C) consecutive interior
D) corresponding

**Find the measure of the angle indicated in bold.**

13)

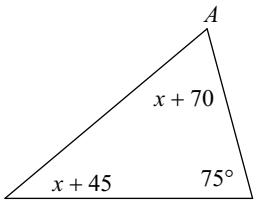



14)

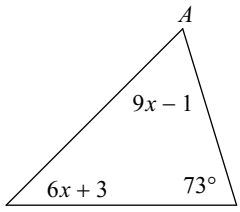



**Find the measure of angle A.**

15)

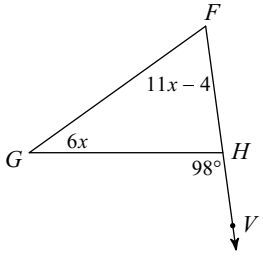



16)

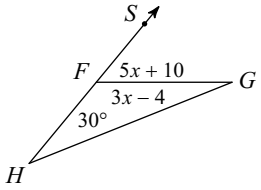



**Solve for *x*.**

17)

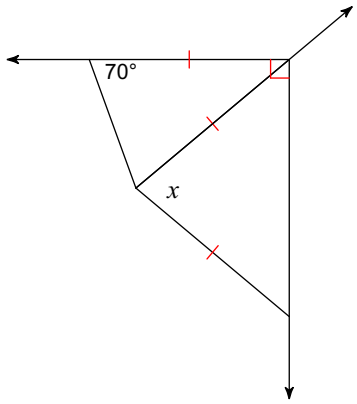



18)

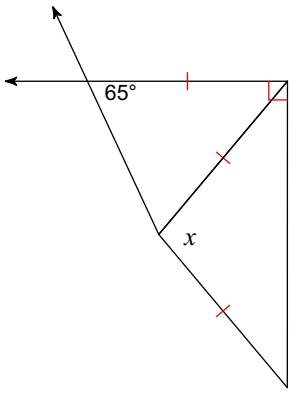


**Find the value of $x$.**

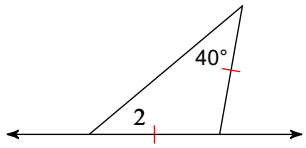
19)



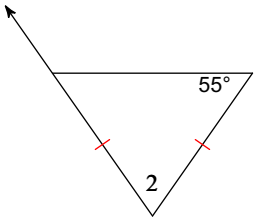

20)




21) $m\angle 2 = 18 + 2x$




22) $m\angle 2 = x + 76$




**State if the three numbers can be the measures of the sides of a triangle.**

23) 6, 3, 12

A) Yes B) No

24) 14, 8, 6

A) Yes B) No

**Two sides of a triangle have the following measures. Find the range of possible measures for the third side.**

25) 10, 12

26) 12, 11

27) 12, 11

28) 10, 12

Geometry Name_____

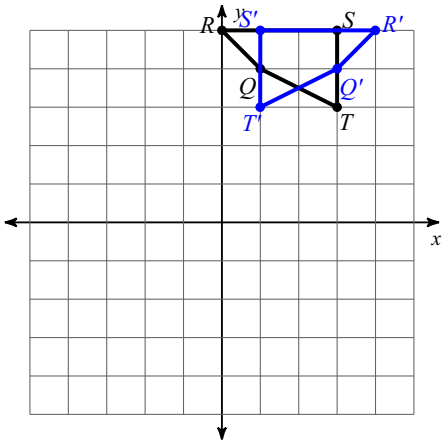


# Additional Review - MUST SHOW WORK

Date_____ Period____

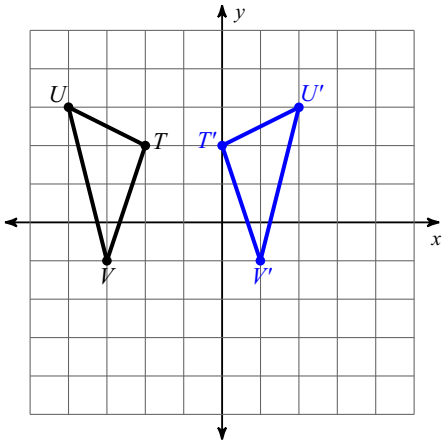
**Write a rule to describe each transformation.**

1)



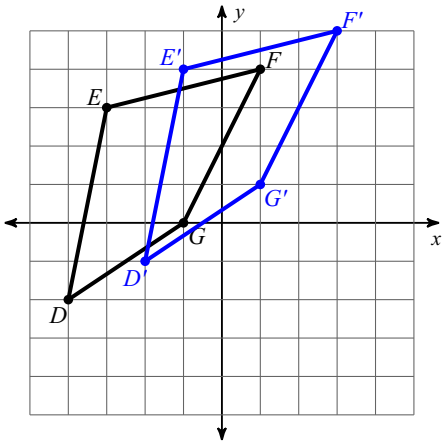

A) rotation 90° clockwise about the origin
B) translation: $(x, y) \rightarrow (x + 1, y - 1)$
C) translation: $(x, y) \rightarrow (x - 5, y - 3)$
*D) reflection across $x = 2$

2)



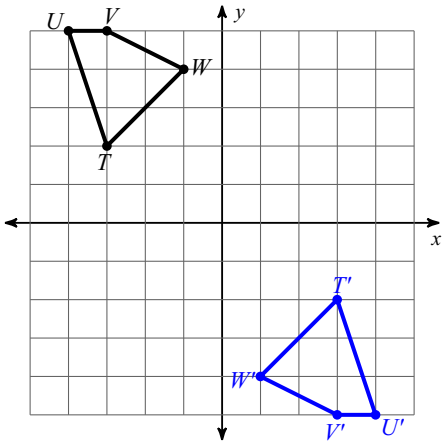

*A) reflection across $x = -1$
B) translation: $(x, y) \rightarrow (x + 5, y - 4)$
C) translation: $(x, y) \rightarrow (x + 6, y - 1)$
D) rotation 180° about the origin

3)




A) rotation 180° about the origin
*B) translation: $(x, y) \rightarrow (x + 2, y + 1)$
C) reflection across the x-axis
D) reflection across $x = -2$

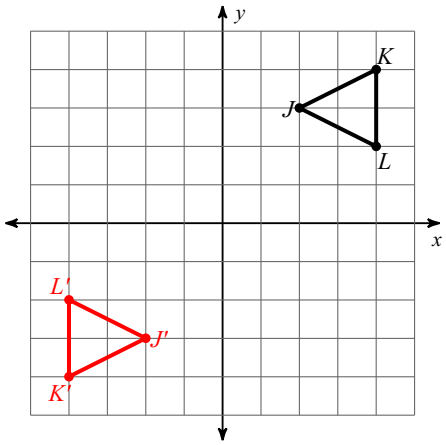
4)



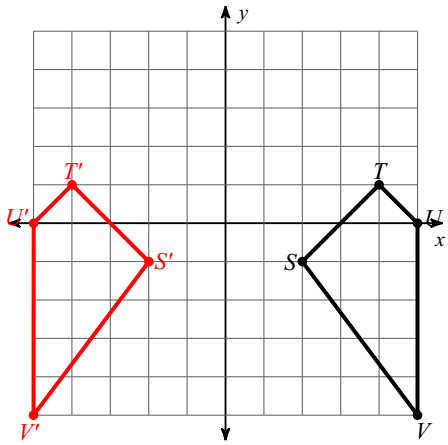

A) translation: $(x, y) \rightarrow (x - 1, y - 7)$
B) translation: $(x, y) \rightarrow (x + 1, y - 7)$
*C) rotation 180° about the origin
D) reflection across $y = 3$

**Graph the image of the figure using the transformation given.**

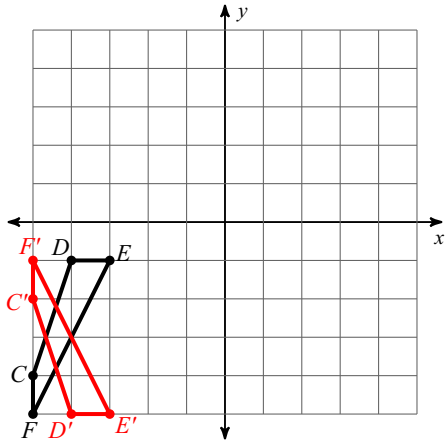
5) rotation 180° about the origin



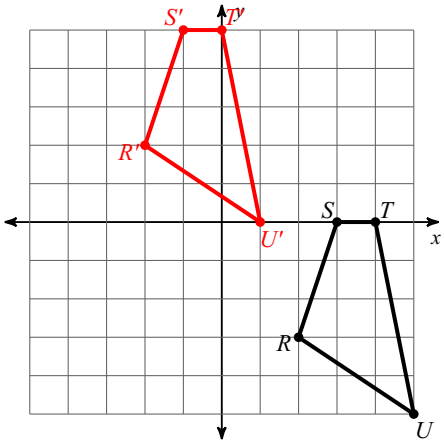

6) reflection across the y-axis




7) reflection across $y = -3$

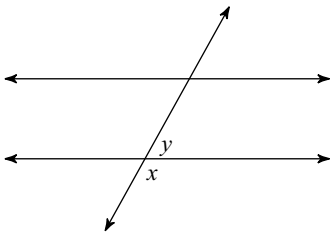



8) translation: $(x, y) \rightarrow (x - 4, y + 5)$



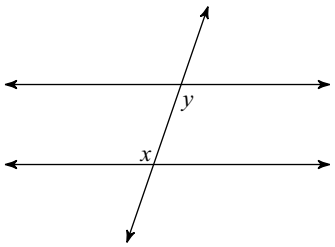

**Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, vertical, or adjacent.**

9)



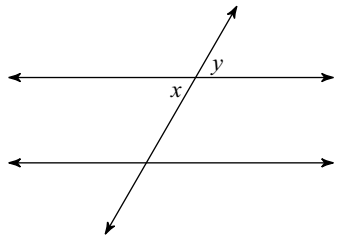

A) corresponding
B) alternate exterior
*C) adjacent
D) alternate interior

10)



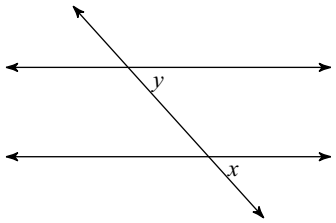

A) consecutive interior
B) alternate exterior
*C) alternate interior
D) corresponding

11)




A) alternate exterior
B) alternate interior
*C) vertical
D) corresponding

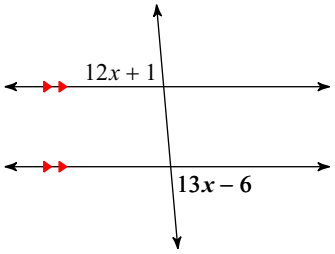
12)




A) alternate exterior
B) alternate interior
C) consecutive interior
*D) corresponding

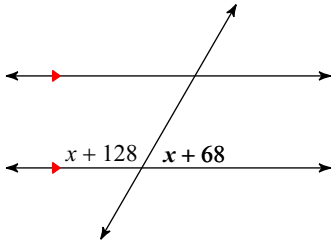
**Find the measure of the angle indicated in bold.**

13)




85°

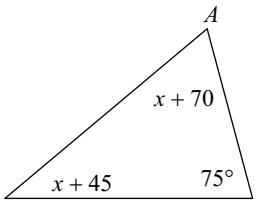
14)




60°

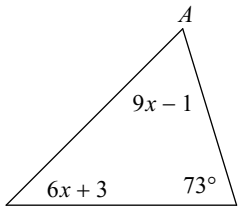
**Find the measure of angle A.**

15)




65°

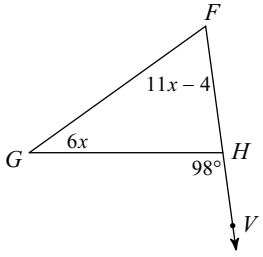
16)




62°

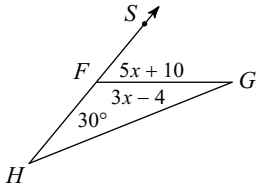
**Solve for *x*.**

17)




6

18)

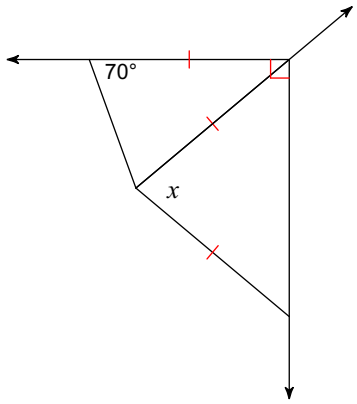



8

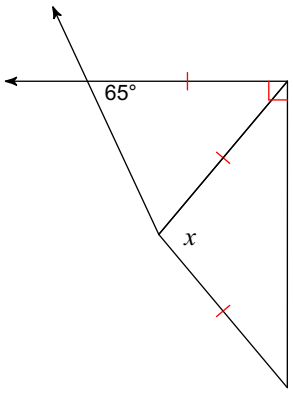
**Find the value of *x*.**

19)



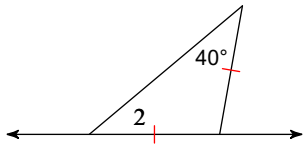

80°

20)



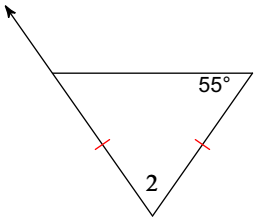

100°

21) $m\angle 2 = 18 + 2x$




11

22) $m\angle 2 = x + 76$




–6

**State if the three numbers can be the measures of the sides of a triangle.**

23) 6, 3, 12

A) Yes *B) No

24) 14, 8, 6

A) Yes *B) No

**Two sides of a triangle have the following measures. Find the range of possible measures for the third side.**

25) 10, 12

$2 < x < 22$

26) 12, 11

$1 < x < 23$

27) 12, 11

$1 < x < 23$

28) 10, 12

$2 < x < 22$