

Thursday, May 11

1. Which value of n would result in infinite solutions to $6x + 18 = n(2x + 6)$?

- A) -2 B) -3 C) 2 D) 3

$$6x + 18 = 6x + 18$$

2. What is the solution to the system? (Hint: you can use your calculator)

$$y = -\frac{2}{3}x + 2$$

$$y = \frac{1}{3}x - 3$$

A) $(-1, \frac{8}{3})$ B) $(-3, -4)$

C) $(5, -\frac{4}{3})$ D) $(8, -\frac{1}{3})$

Transformation EOG Review

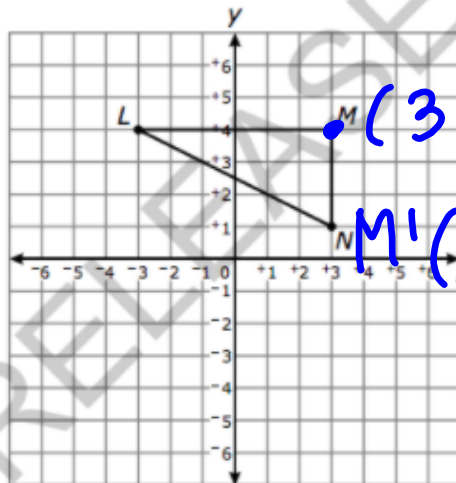
Go to joinpd.com

Get ready for a work-out.....



$\triangle LMN$ will be dilated with respect to the origin by a scale factor of $\frac{1}{2}$.

1.




- A ~~$L'(-6, -8), M'(6, 8), N'(6, 8)$~~
- B ~~$L'(-3, 2), M'(3, 2), N'(3, 0.5)$~~
- C ~~$L'(-1.5, 2), M'(1.5, 2), N'(1.5, 0.5)$~~
- D ~~$L'(-1, 2), M'(1, 2), N'(1, 1)$~~

$M(3, 4)$
 $M'(1.5, 2)$

What will be the coordinates of $\triangle L'M'N'$?

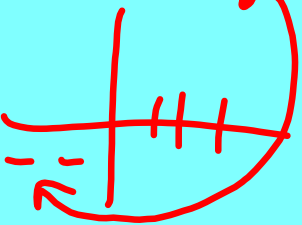
2.



$\triangle XYZ$ with vertices $X(1, 1)$, $Y(3, 5)$, and $Z(5, 1)$ will be rotated 180° about the origin. What will be the coordinates of Y' ?


A $(-5, 3)$ C $(5, -3)$
 B $(-3, -5)$ D $(5, 3)$

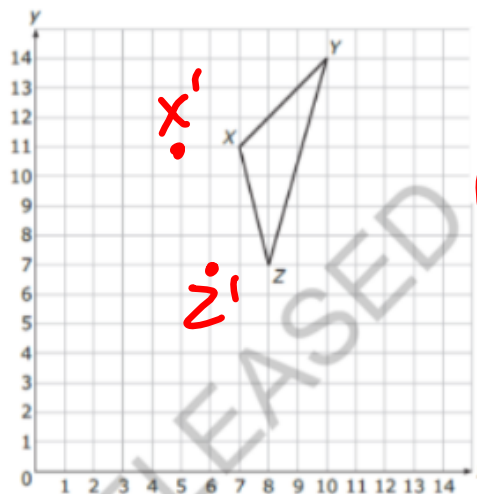
$Y(3, 5)$
 $(-3, -5)$



$\triangle XYZ$ will be translated so that the coordinates of X' are $(5, 11)$.

3.





What will be the coordinates of Z' ?

A $(5, 8)$ C $(7, 6)$
 B $(6, 7)$ D $(8, 5)$

Rectangle WXYZ will be dilated by a scale factor of $\frac{1}{2}$, creating rectangle W'X'Y'Z'.

4. What will be the perimeter of rectangle W'X'Y'Z'?

A 4 units C 12 units
 B 6 units D 24 units

Handwritten notes:
 $A = 8$
 $A = 2$
 $P = 12$
 $P = 6$

5. The triangle will be rotated 90 degrees counterclockwise about the origin. What will be the coordinates of the image point Q?

A (-1, -1)
 B (-1, 1)
 C (1, -1)
 D (1, 1)

Handwritten notes:
 (-1, -1)

6. This shows a rectangle in the coordinate plane.

Which choice would transform the rectangle to quadrant IV?

- A rotate 180° clockwise about the origin
- B translate left 10 units
- C reflect over the y-axis
- D reflect over the x-axis

7. Triangle RST will be translated 3 units left and 2 units down.

What will the coordinates of the vertices of $\triangle R'S'T'$ be?

- A $R'(0, 2), S'(-2, -1), T'(2, -1)$
- B $R'(3, 2), S'(1, -1), T'(5, -1)$
- C $R'(0, 4), S'(-2, 1), T'(2, 1)$
- D $R'(6, 6), S'(4, 3), T'(8, 3)$

15 Square $JKLM$ will be reflected over the y -axis.

8. A $(4, 1)$
 B $(1, 4)$
 C $(-1, -4)$
 D $(-4, -1)$

What will be the coordinates of L' ?

9. In the graph, $\triangle STU$ is the image of $\triangle PQR$ after a dilation with respect to the origin.

A $\frac{3}{2}$
 B $\frac{1}{2}$
 C $\frac{1}{3}$
 D $\frac{1}{4}$

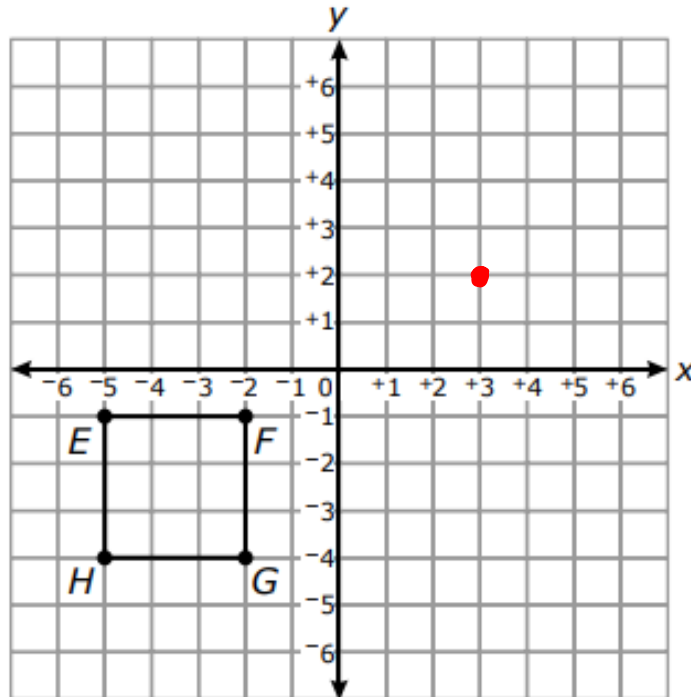
What was the scale factor of the dilation?

Square $EFGH$ will be translated 3 units up and 5 units right.

10.



- A (4, 1)
- B (1, 4)
- C (2, 3)
- D (3, 2)**

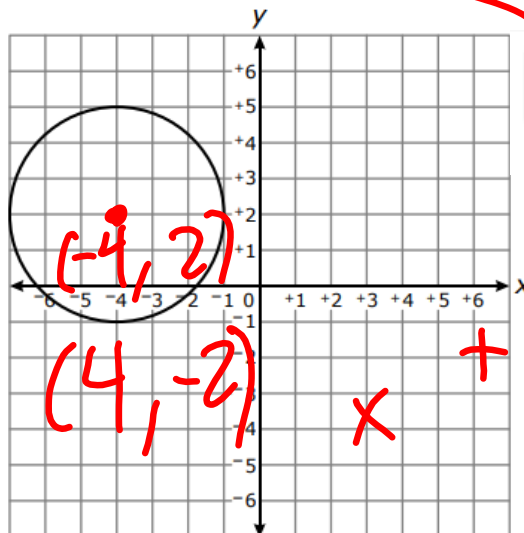


What will be the coordinates of the image point F' ?

11.

- A (4, 2)
- B (4, -2)**
- C (-4, 2)
- D (-4, -2)

21 The circle shown on the graph will be rotated 180 degrees about the origin.



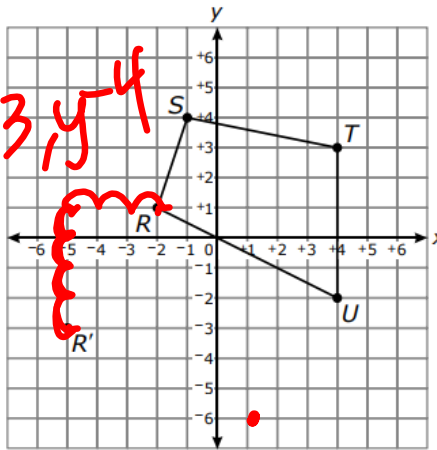
What will be the coordinates of the center of the image circle?

12

22 Figure $RSTU$ is shown in the graph.

- A $(1, -6)$
- B $(-4, 0)$
- C $(1, -1)$
- D $(4, -6)$

$x - 3, y - 4$

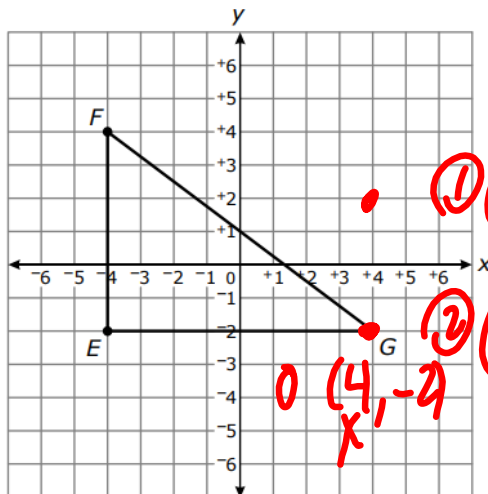


A second figure, $R'S'T'U'$, will be graphed on the coordinate grid. Figure $R'S'T'U'$ will be created by translating figure $RSTU$ so that the image point R' is at the location shown in the graph.

What will be the location of vertex U' ?

23 Triangle EFG is shown in the graph.

13.



① $(4, 2)$
 $\times 2 \times 2$
 ② $(8, 4)$
 $x, y - 2$



- A $(8, -4)$
- B $(8, -2)$
- C $(8, 2)$
- D $(8, 4)$

The triangle will be reflected across the x-axis and then dilated by a scale factor of 2 with respect to the origin, resulting in triangle $E'F'G'$.

What will be the coordinates of G' ?



HW due Friday: 8th Grade End of Year
Review (on Canvas)

Don't forget:

65% of pie complete by 6/2

Replacement assignment on ALEKS due
5/31