

Do Now:

1. The coordinates of point A (-4, 2), are reflected over the x – axis. What are the coordinates of A'?

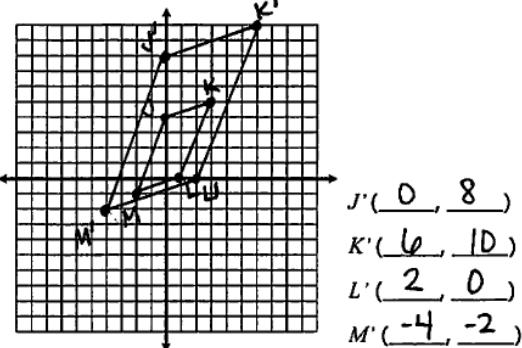
$$A'(-4, -2)$$

2. The coordinates of Point Q (-5, 6), are rotated 180 about the origin. What are the coordinates of Q'?

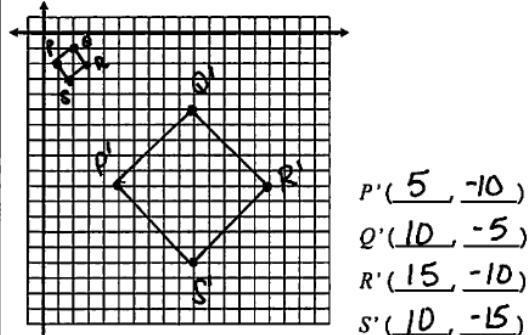
$$(x, y) \rightarrow (-x, -y) Q'(5, -6)$$

Sep 3-9:31 PM

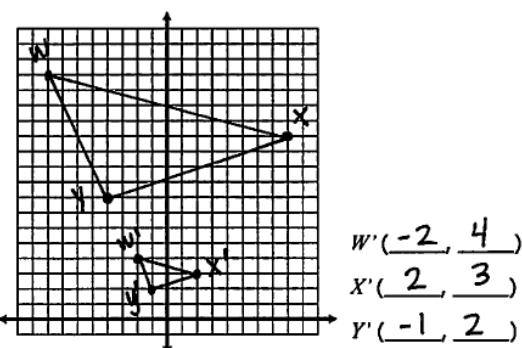
1. Parallelogram JKLM with vertices J(0, 4), K(3, 5), L(1, 0), and M(-2, -1): $k = 2$



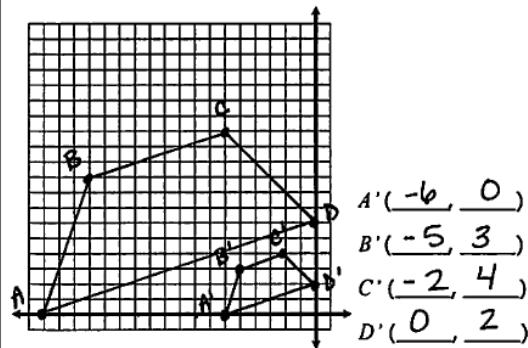
2. Square PQRS with vertices P(1, -2), Q(2, -1), R(3, -2), and S(2, -3): $k = 5$



3. Triangle WXY with vertices W(-8, 16), X(8, 12), and Y(-4, 8): $k = 1/4$



4. Trapezoid ABCD with vertices A(-18, 0), B(-15, 9), C(-6, 12), and D(0, 6): $k = 1/3$



Feb 15-7:03 AM

Find the image point for a Dilation

- 1) What is G' if $G(-3, 4)$ is dilated with a scale factor of 3?

$$k=3 \quad G'(-9, 12)$$

- 2) What is T' if $T(-6, -9)$ is dilated with a scale factor of $\frac{1}{3}$?

$$k = \frac{1}{3} \quad T'(-2, -3)$$

Multiply x & y
by the k-factor

Feb 9-11:39 AM

Finding the k value(Scale factor) for Dilations

- 3) $F(3, -2) \rightarrow F'(6, -4)$. What is the value of k ?

$$\frac{\text{Image}}{\text{Pre-Image}} \quad \text{Chose } x \text{ or } y \quad \frac{6}{3} = 2$$

$K = 2$

- 4) $H(-8, -4) \rightarrow H'(-4, -2)$. What is the value of k ?

$$\frac{\text{Image}}{\text{Pre-Image}} \quad \frac{-4}{-8} = \frac{1}{2} \quad \boxed{K = \frac{1}{2}}$$

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Finding Image Points

- 5) $R(-5, 2) \rightarrow R'(-10, 4)$. What is P' , the image of $P(-3, -2)$?

$$\frac{-10}{-5} = 2$$
$$K=2$$

$$P'(-6, -4)$$

- 6) $A(0, -12) \rightarrow A'(0, -4)$. What is V' , the image of $V(-6, -9)$?

$$\frac{-4}{-12} = \frac{1}{3}$$
$$K=\frac{1}{3}$$
$$V'(-2, -3)$$

Feb 12-6:58 AM

Attachments

BigQ