

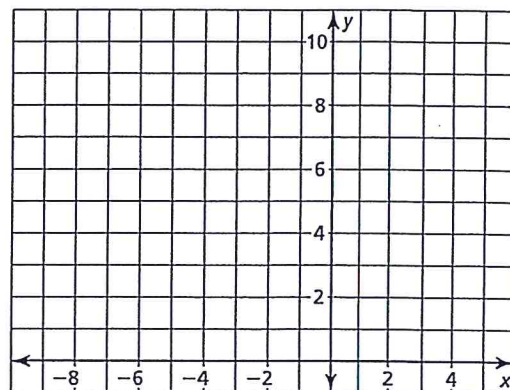
8.2 Notetaking with Vocabulary (continued)**Extra Practice**

In Exercises 1–3, graph the polygon with the given vertices and its image after the similarity transformation.

1. $A(3, 6)$, $B(2, 5)$, $C(4, 3)$, $D(5, 5)$

Translation: $(x, y) \rightarrow (x - 5, y - 3)$

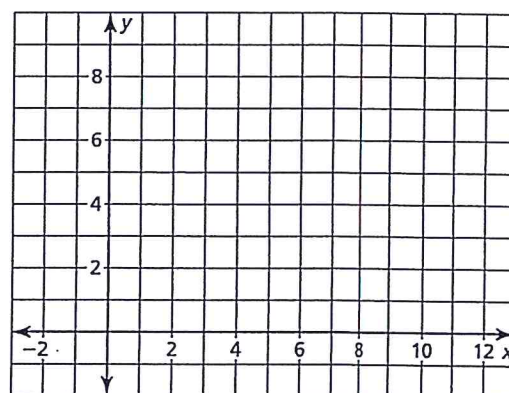
Dilation: $(x, y) \rightarrow (3x, 3y)$



2. $R(12, 8)$, $S(8, 0)$, $T(0, 4)$

Dilation: $(x, y) \rightarrow \left(\frac{1}{4}x, \frac{1}{4}y\right)$

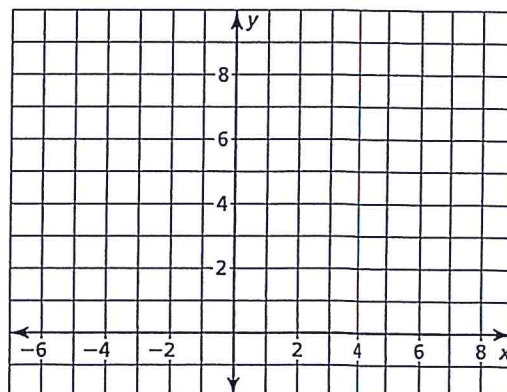
Reflection: in the y -axis



3. $X(9, 6)$, $Y(3, 3)$, $Z(3, 6)$

Rotation: 90° about the origin

Dilation: $(x, y) \rightarrow \left(\frac{2}{3}x, \frac{2}{3}y\right)$



8.2 Notetaking with Vocabulary (continued)

In Exercises 4–6, describe the similarity transformation that maps the preimage to the image.

