Training Header Sheet with Change Log Form
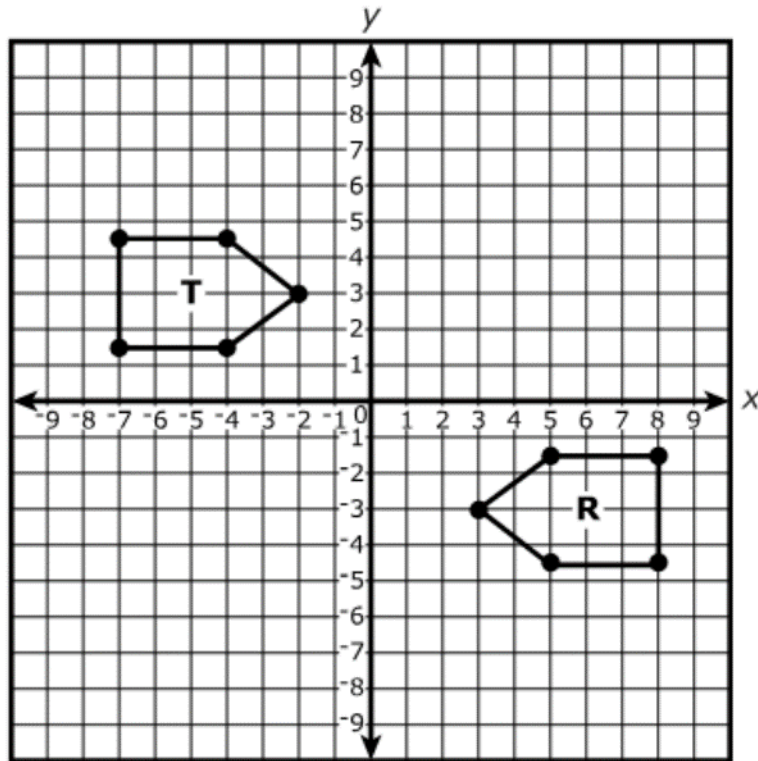
Kentucky Math Operational

Grade 8/Math Geometric transformations MA082007

Practice Sets

Date	Comments	Version
11.2022	Initial Operational Training Set	Set A

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
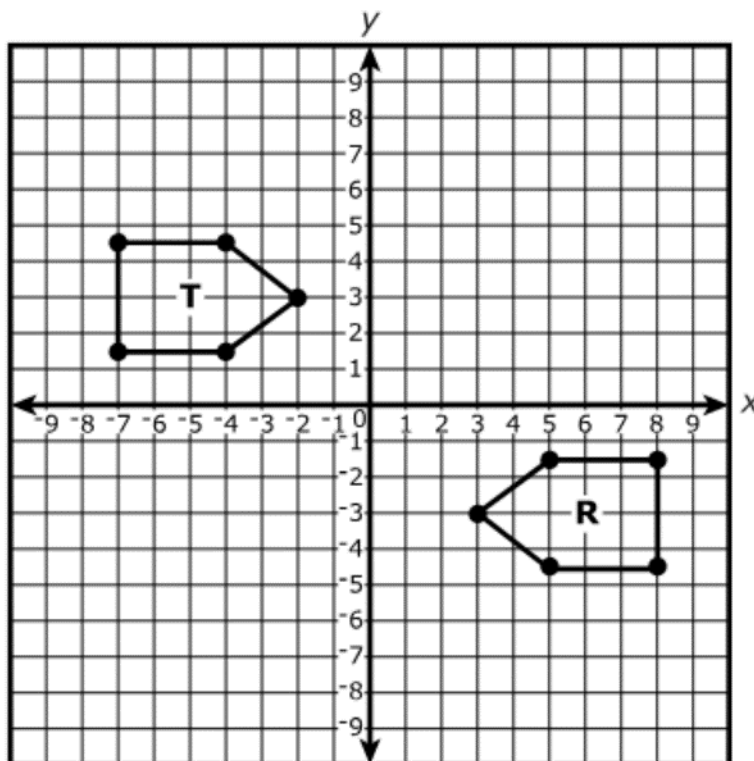

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

Its a reflection on the x axes.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
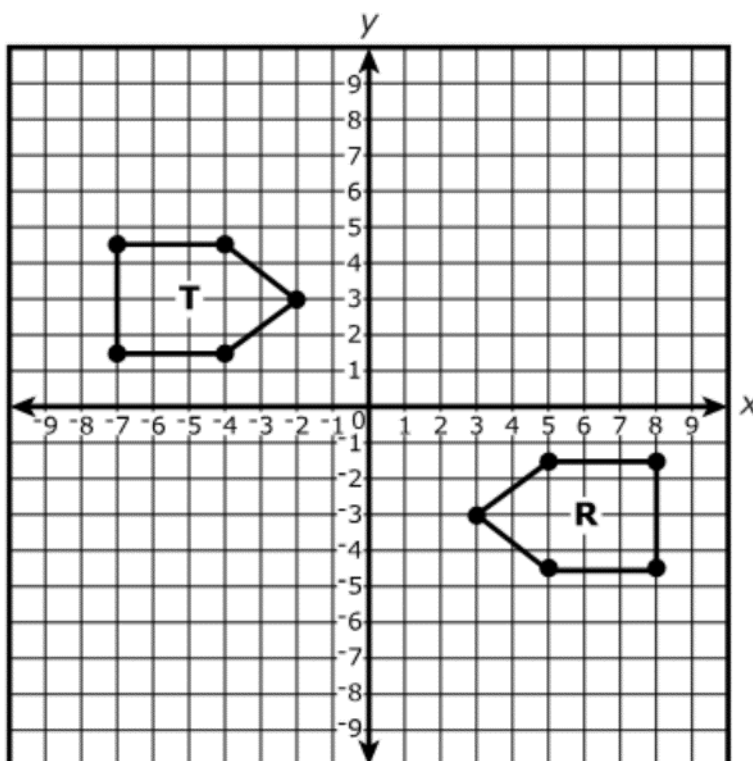

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

you would reflect over the y axis, then you would reflect over the x axis and then you would translate the shape over two squares to the right.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
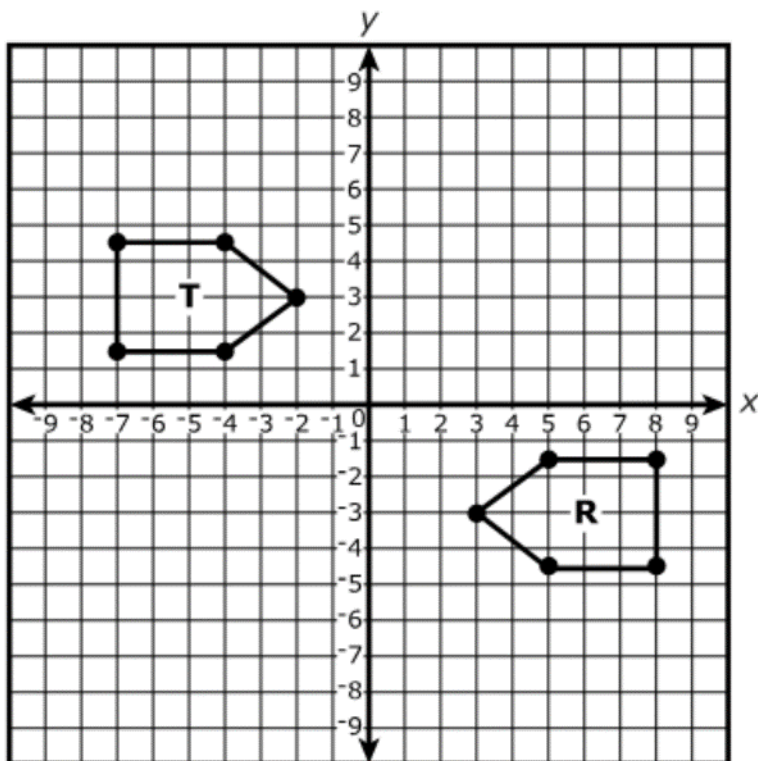

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

I know figure R is congruent to figure T. I know this becasue they flipped figure T across the y axis, moved it one unit to the right, and then moved the figure 6 units down.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
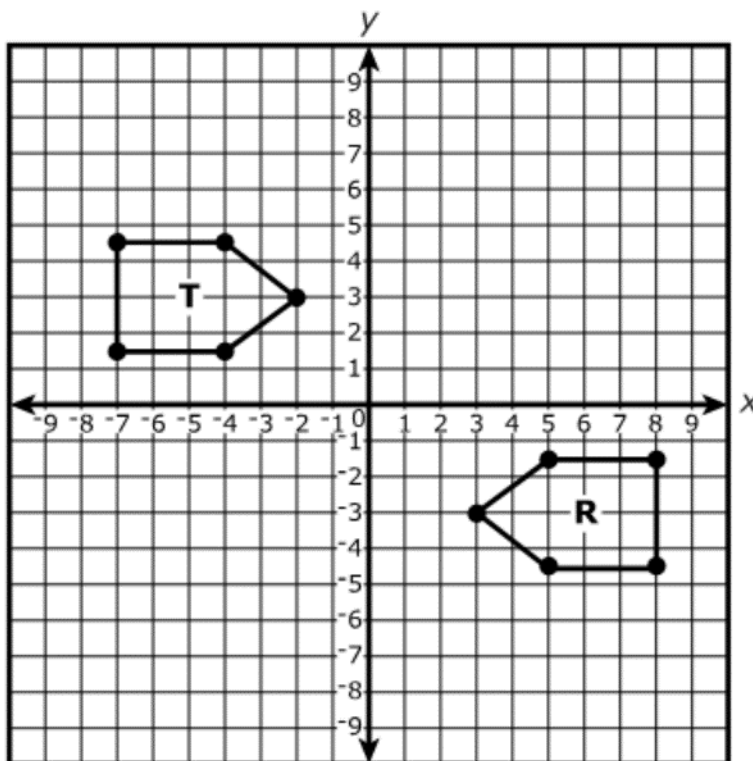

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

down six across the x axis

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
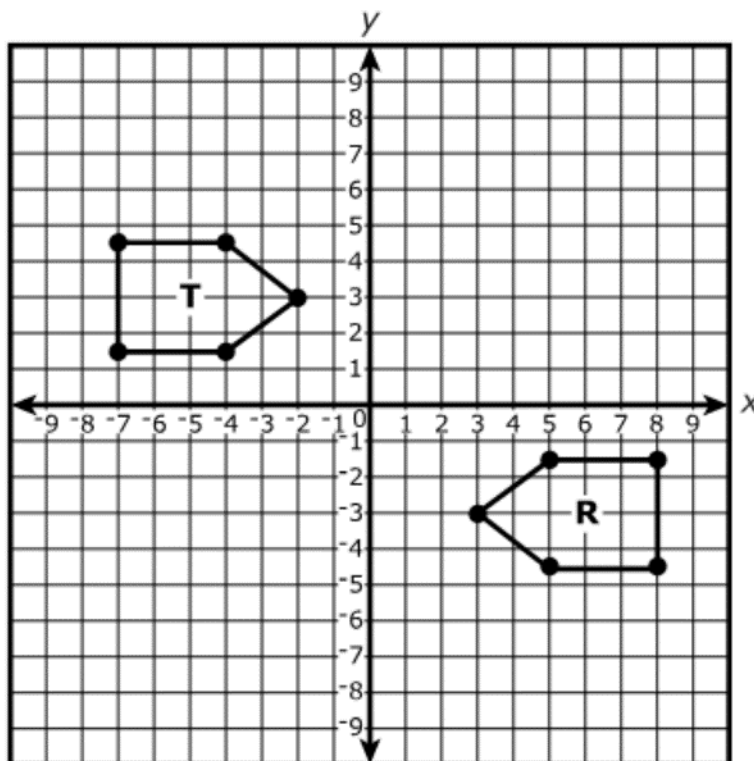

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

Figure R is congruent to figure T becuase it is 6 translations down, fliped by y axis and moved one translation to the right.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
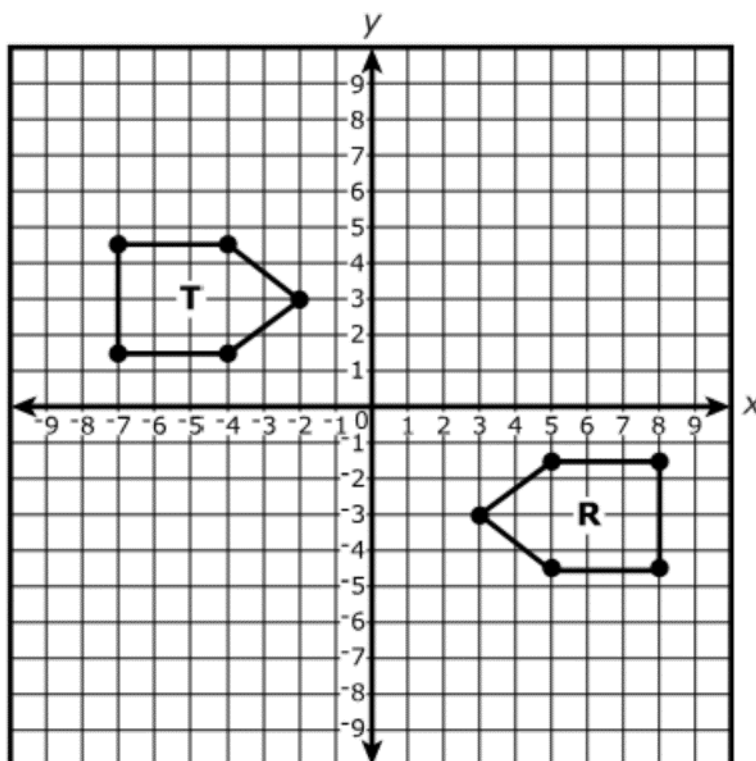

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

To prove Figure R is congruents to Figure T, the sequece of geometric transofrmation would look like this:

Figure R would make a translation of 2 units left and 6 units up. Next, it would make a reflection across the "y" axis, proving it the two shapes are crongruent.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
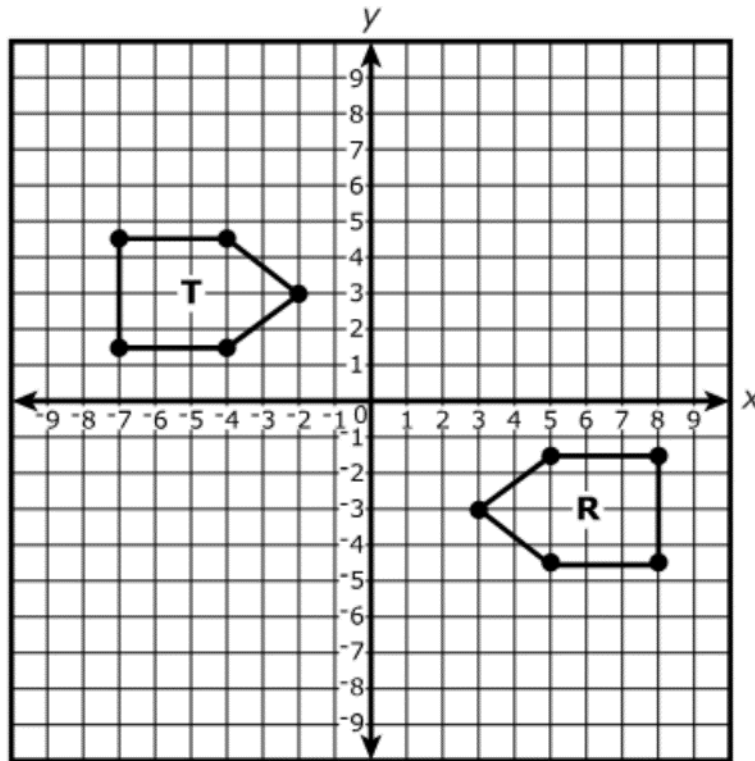

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

If Figure R is the image and Figure T is the pre-image, then Figure T must have been reflected then translated (up 6, over 2); meaning that they are congruent because the only transformation that includes changing size is dialation.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
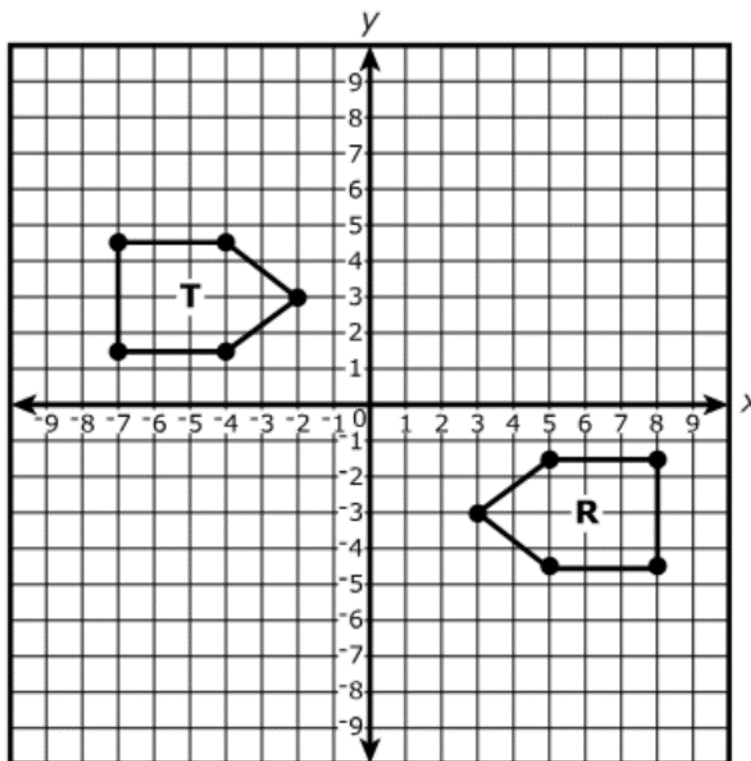

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

You can find the area of the shapes by cutting one of the trangle off to have two shapes. For example, R have an area of 10 and T area is 10 as well.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
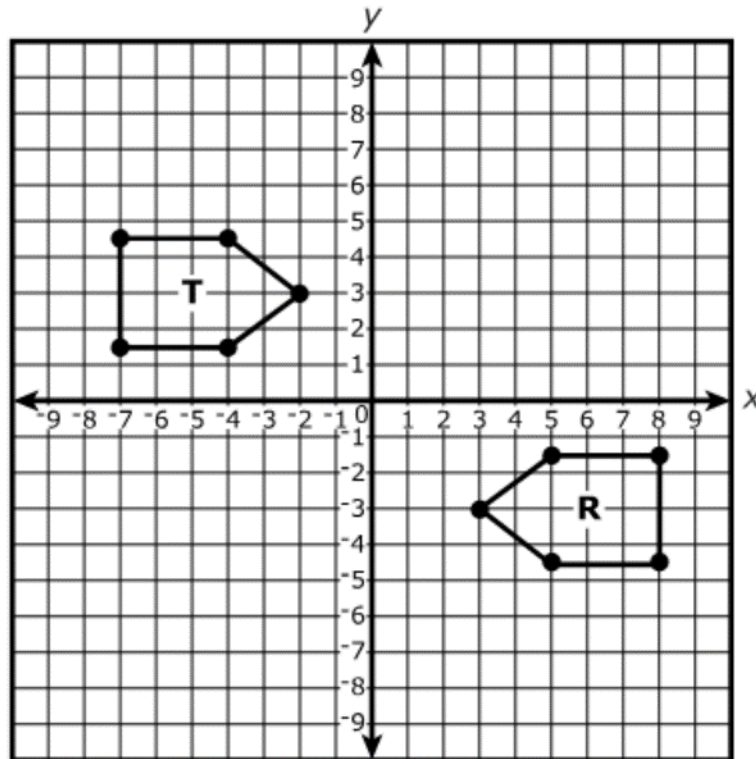

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

1. Translate (T) 1 space to the left.

2. Flip (T) over the Y axis

3. Flip (T) over the X axis

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

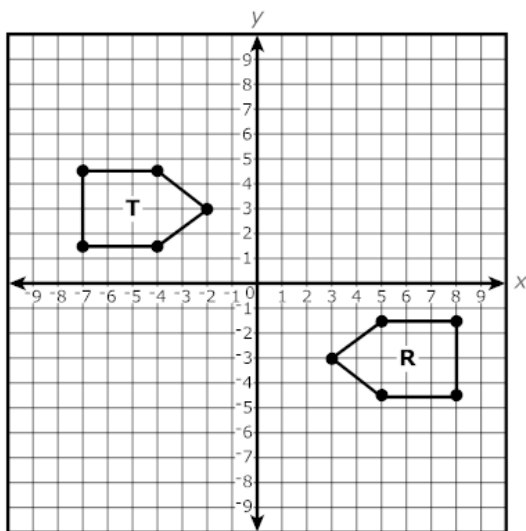Enter your answer and your descriptions in the space provided.

$$3 + 2 + 2 + 3 + 3 = 13$$
$$2 + 2 + 3 + 3 + 3 = 13$$

They have the same dimensions so they are congruent.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
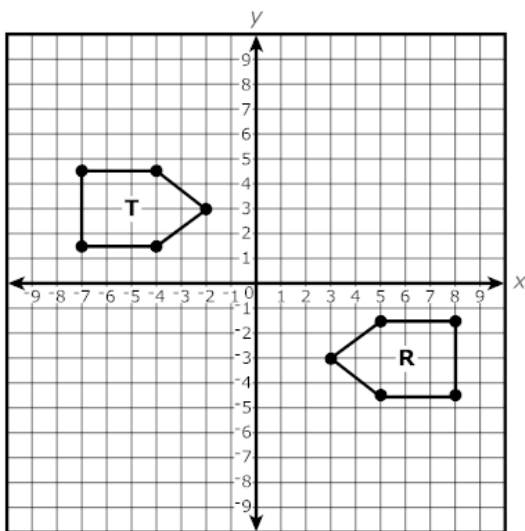

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

reflect across the line and transition down 6 units

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.
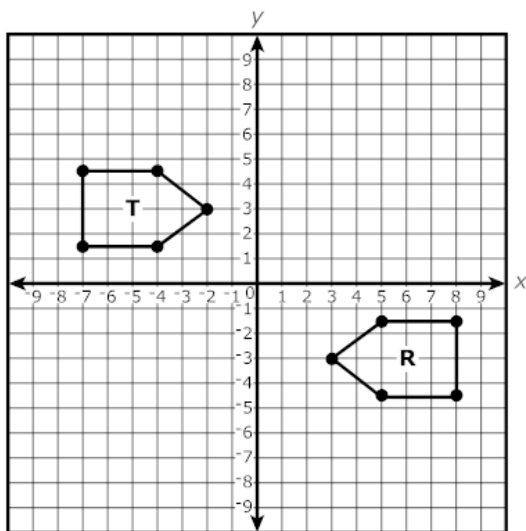
Enter your answer and your descriptions in the space provided.

Figure $R \cong Figure$ T

Rotation $180°$

Translated $(x + 1, y)$

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
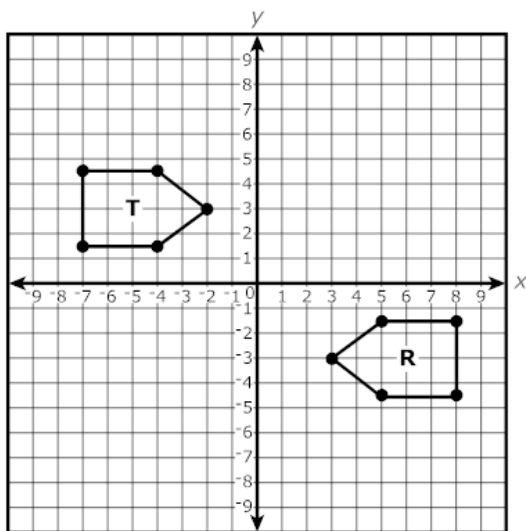

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

To prove that figure R is congruent to figure T you would need to reflect figure R on the Y axis and then move the whole shape to the right 1.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
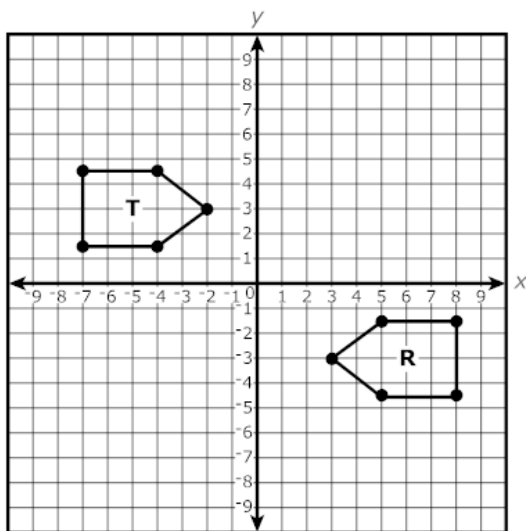

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

Reflection off the origin

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
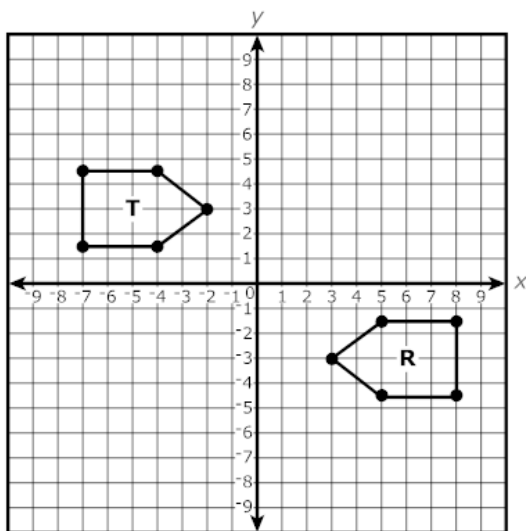

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

They are both diaginal from eachother so they are congruet.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
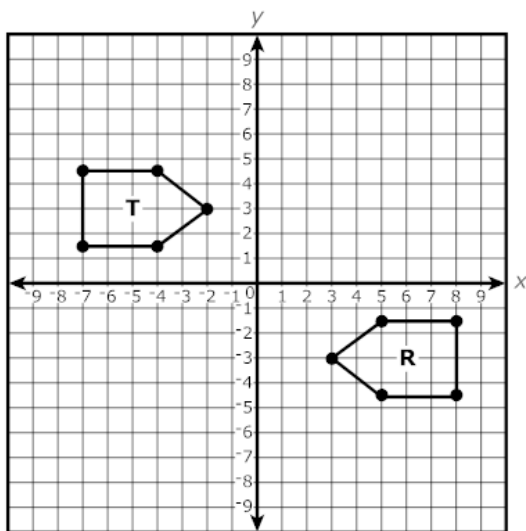

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

First, you reflect figure R over the line $x = 3$. Then, you translate the reflected figure R 5 units to the left. Last, you translate figure R 6 units up.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
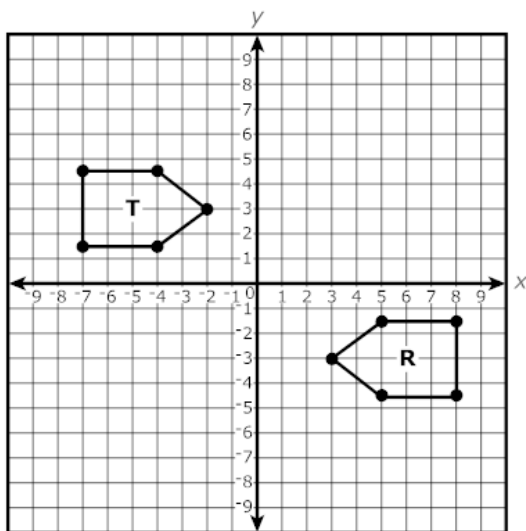

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

R is congruent to T because it is the same shape. I say this because the type of movement to get T to R would be a rotation of 180 degrees. another reason i say this is because they have the same dimentions. both of the shapes areas are 12.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
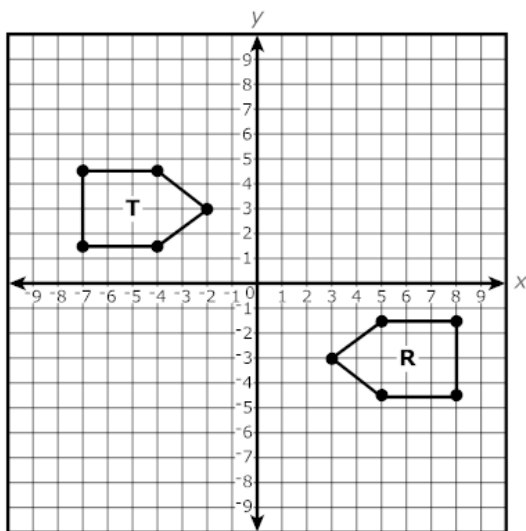

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

The sequence necessary to prove that Figure R is congruent to Figure T is start with Figure T and do a rotation of $90°$ and you get Figure R.

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.
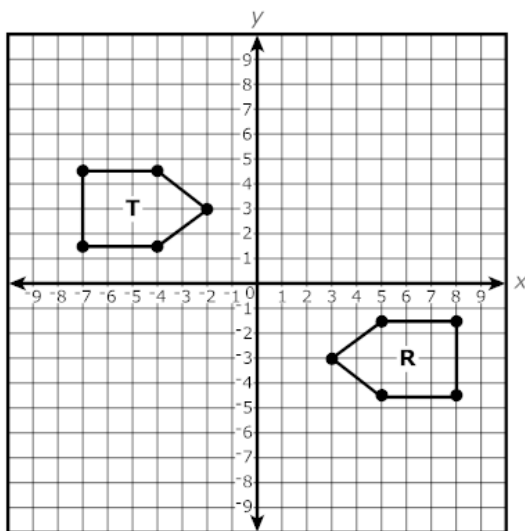

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

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up 7 points to the left 6 points and fliped

Figure R and Figure T are shown on the coordinate plane. Figure R is congruent to Figure T.

Which sequence of geometric transformations can be used to prove that Figure R is congruent to Figure T? Include any necessary units, direction, axes, or degrees in your description.

Enter your answer and your descriptions in the space provided.

Reflect across the Y axis then reflect across the X axis and move the figure one space to the right