

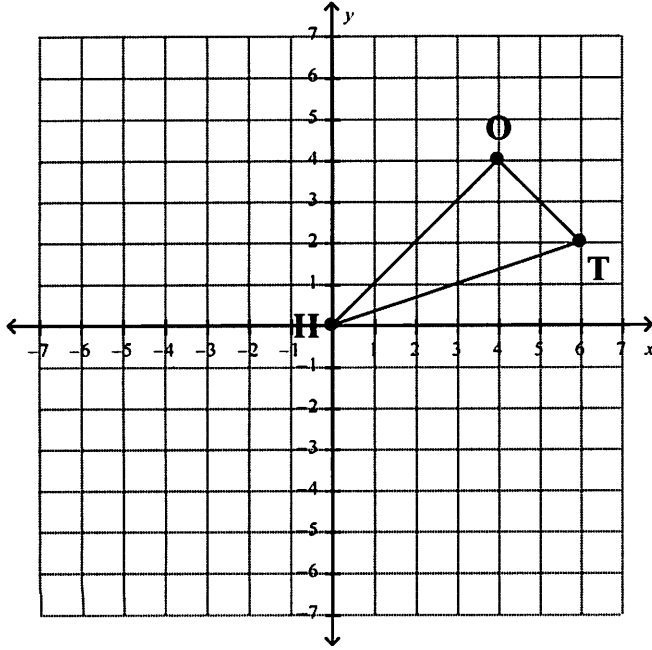
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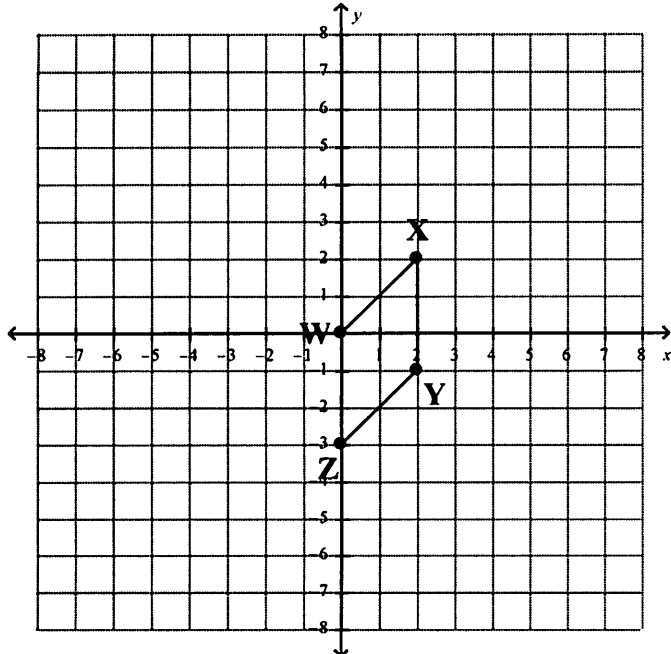
Translations

Class: _____

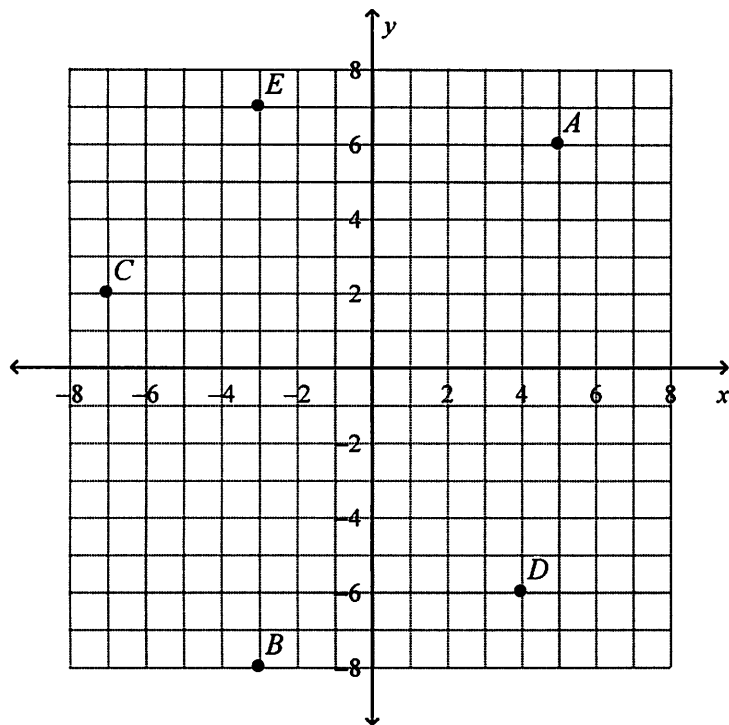
1. Draw the translation of the triangle *HOT* six units left and one unit down. Label the image *H'O'T'*. Is the image similar or congruent? How do you know?



2. Find the translation of the quadrilateral *WXYZ* under the rule $(x, y) \rightarrow (x - 2, y + 4)$.



Use the grid below to answer questions 3 through 5.

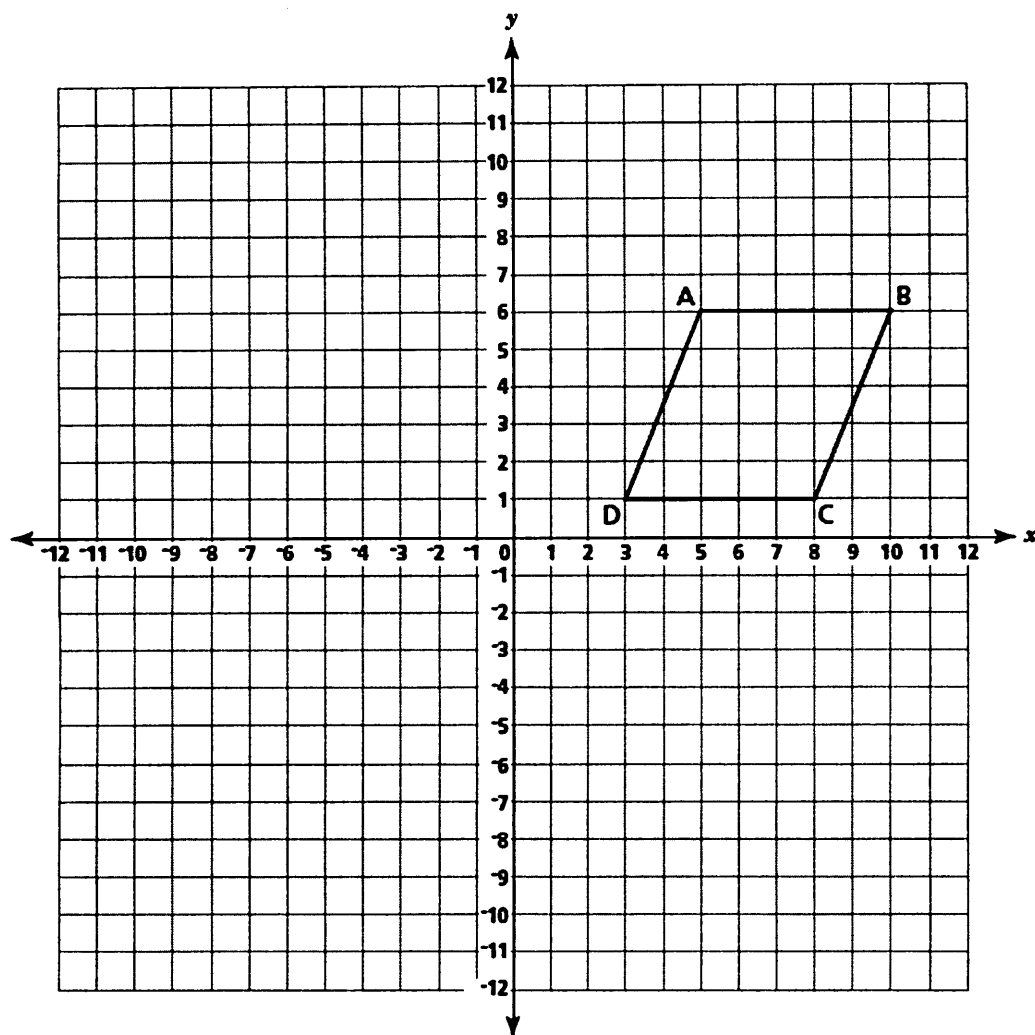


3. Find the rule to describe the translation from point A to point B .
4. Find the rule to describe the translation from point C to point D .
5. Find the rule to describe the translation from point E to point A .

6. Quadrilateral $ABCD$ is plotted on the grid below.

Part A

On the graph, draw the translation of polygon $ABCD$ eight units to the left and seven units down. Label the image $A'B'C'D'$.

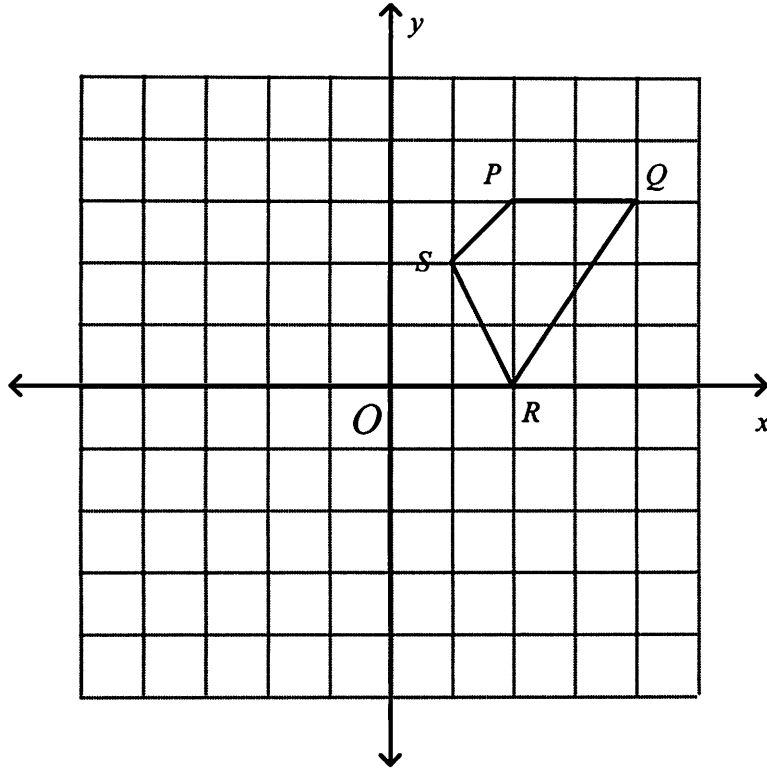


Part B

On the lines below, explain how you determined the location of A' .

7. Quadrilateral $PQRS$ is plotted on the grid below.

On the graph, draw the translation of polygon $PQRS$ three units to the left and four units down. Label the image $P'Q'R'S'$.



Now create polygon $P''Q''R''S''$ by translating polygon $P'Q'R'S'$ using the rule $(x, y) \rightarrow (x + 2, y + 1)$. What will be the coordinates of point Q'' ?

Answer _____

On the lines below, write a single translation rule from polygon $PQRS$ to polygon $P''Q''R''S''$.
