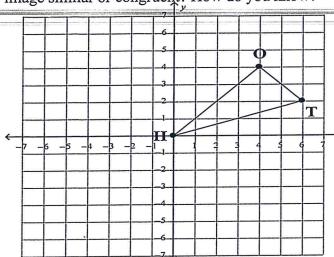
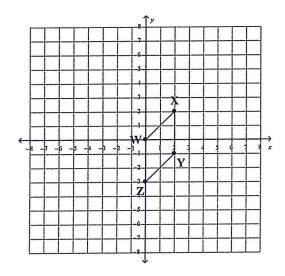
Classwork/Homework/More Practice/Graded Work

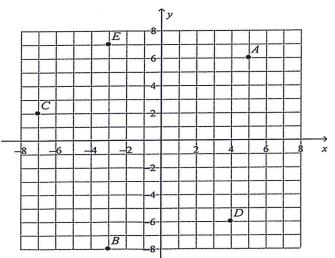
1. Draw the translation of the triangle HOT six units left and one unit down. Label the image H'O'T'. Is the image similar or congruent? How do you know?



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



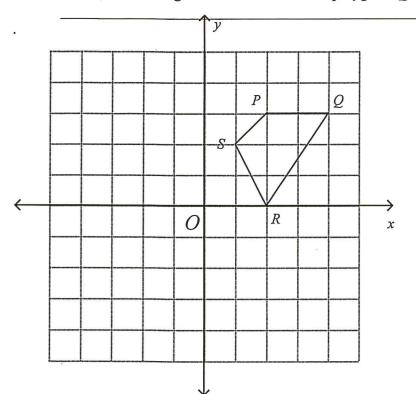
Use the grid below to answer questions 3 through 5.

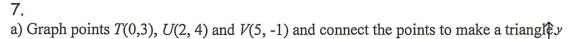


- 3. Find the rule to describe the translation from point A to point B.
- **4.** Find the rule to describe the translation from point C to point D.
- 5. Find the rule to describe the translation from point E to point A.

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

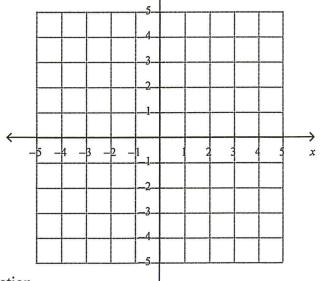
below, write a single translation rule from polygon *PQRS* to polygon *P"Q"R"S"*.





- b) Translate $\triangle TUV$ using the rule $(x, y) \rightarrow (x 3, y 1)$.
- c) In words, describe what the rule is asking you to do.
- d) Draw the image $\Delta T'U'V'$.
- e) Identify the coordinates of $\Delta T'U'V'$.

T'____V'____



f) Using the image of $\Delta T'U'V'$ perform an additional translation using the rule $(x, y) \rightarrow (x + 3, y - 3)$. State the new coordinates of $\Delta T''U''V''$.

Is this new image congruent or similar to the original figure?_