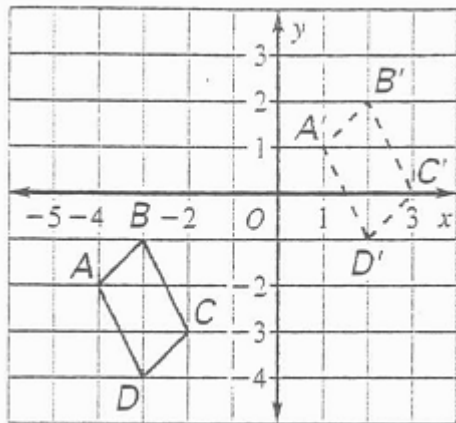


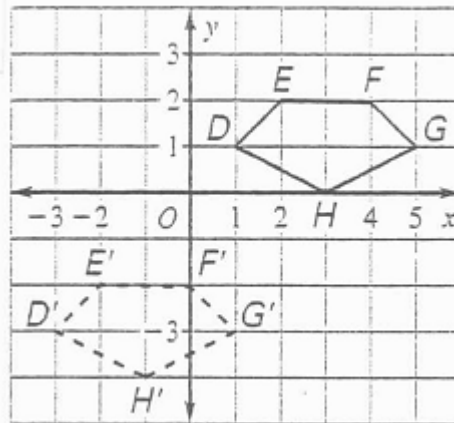
Translations

Describe the translation from the figure to the image in words.

1.

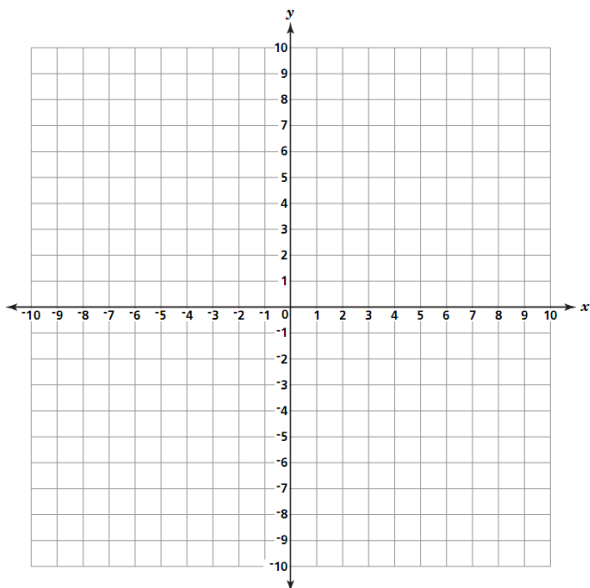
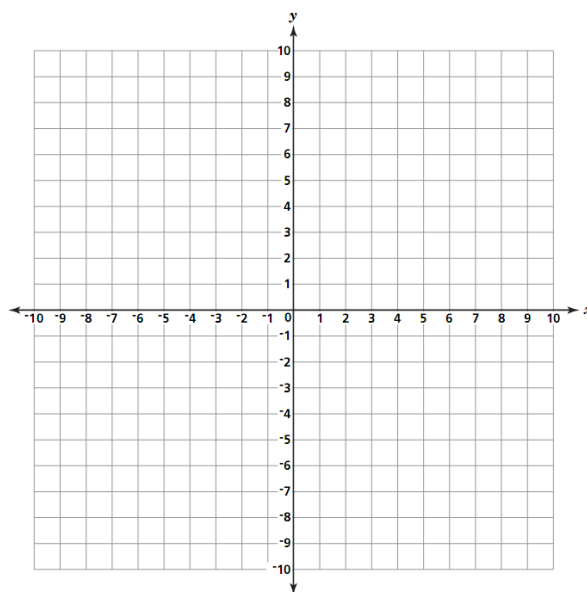


2.



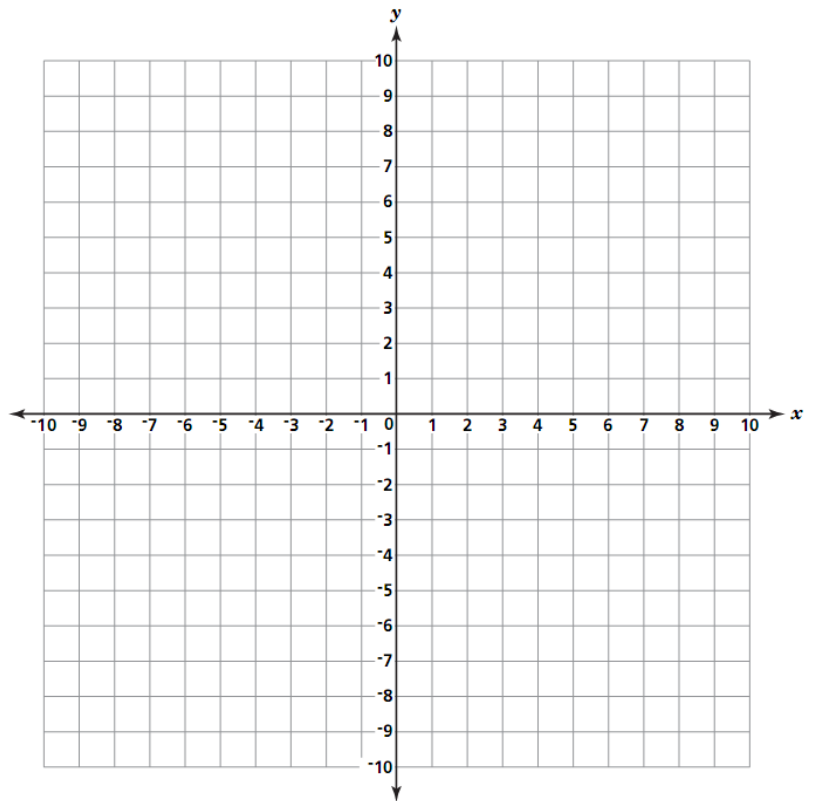
The vertices of a polygon are given. Draw the polygon. Then find the coordinates of the vertices of the image after the specified translation and draw the image.

3. $J(4, 2), K(7, 2), L(7, 0), M(5, 0)$
 $(x, y) \rightarrow (x - 6, y + 5)$



4. $A(-4, 2), B(-2, 5), C(0, 3), D(0, 0), E(-2, 0)$
 $(x, y) \rightarrow (x + 4, y)$

5. $T(-5, 3)$, $V(-4, 2)$, $W(-2, 2)$,
 $X(-1, 3)$, $Y(-2, 4)$, $Z(-4, 4)$
 $(x, y) \rightarrow (x + 4, y - 3)$



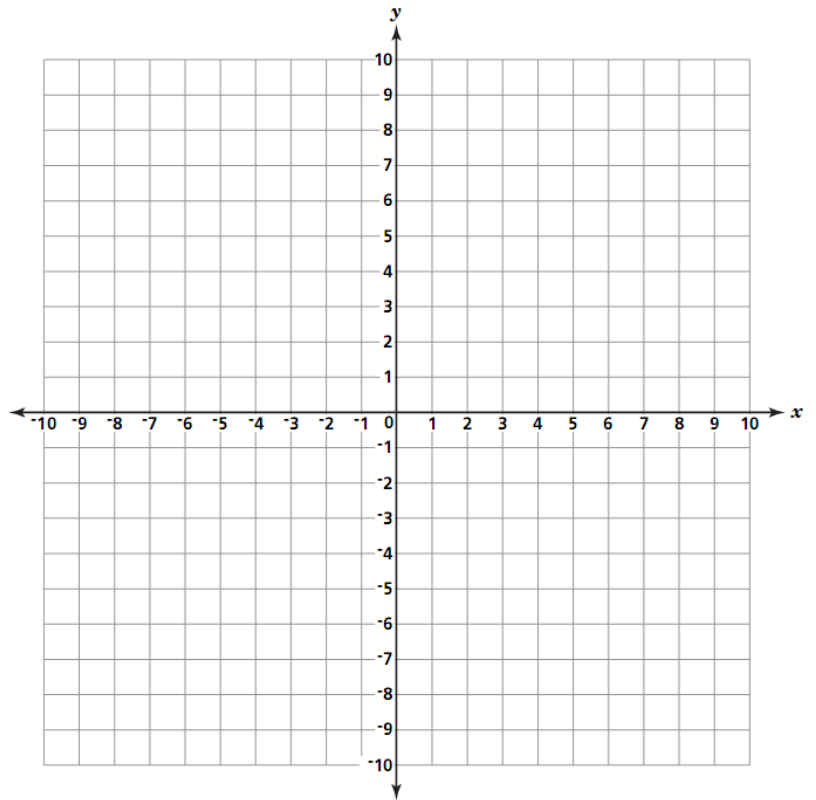
6. Draw $\triangle ABC$ with vertices $A(-4, 4)$, $B(-2, 0)$, and $C(-7, -1)$. Let $\triangle A'B'C'$ be the image of $\triangle ABC$, and let $\triangle A''B''C''$ be the image of $\triangle A'B'C'$.

Part A: Draw $\triangle A'B'C'$ using the translation
 $(x, y) \rightarrow (x + 1, y - 6)$

A' _____ B' _____ C' _____

Part B: Draw $\triangle A''B''C''$ using the translation
 $(x, y) \rightarrow (x + 5, y + 3)$

A'' _____ B'' _____ C'' _____



Part C:
 How could you move $\triangle ABC$ to $\triangle A''B''C''$ using only one translation?
 Explain.
