

Translations Practice

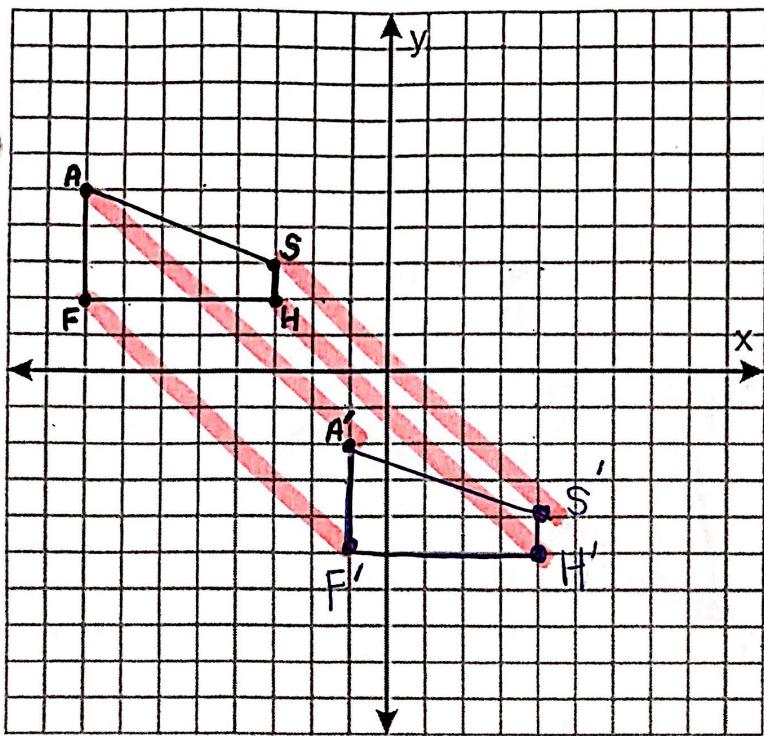


Figure AFHS is translated. After undergoing the rigid motion transformation, $A(-8, 5)$ maps to $A'(-1, -2)$.

- Describe the transformation in words.

Translate Right 7 and down 7

- Write the function rule for the translation.

$$f(x, y) = (x + 7, y - 7)$$

- Identify the image points F', H', S' .

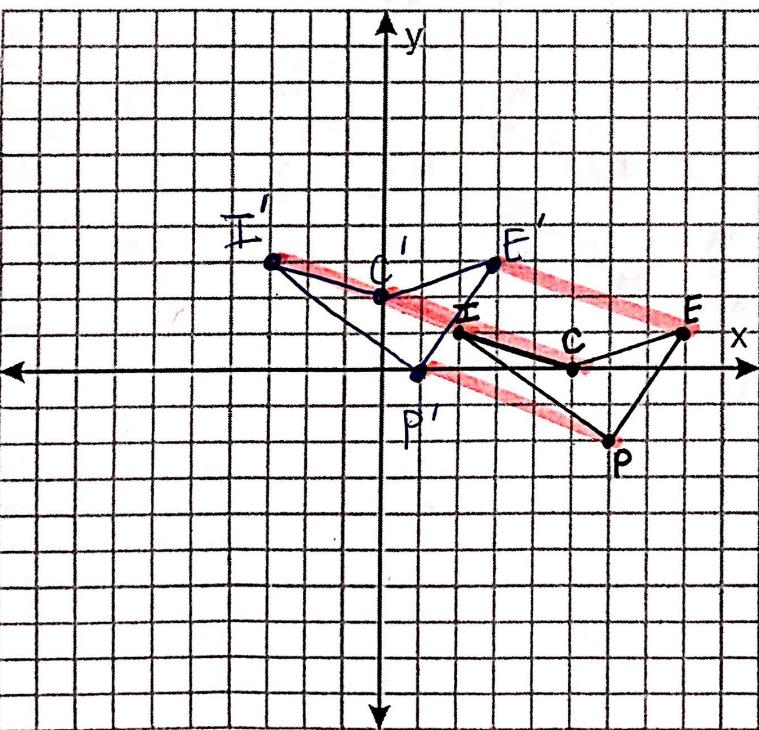


Figure TEAM is translated to create figure EPIC. The stage of TEAM is

Figure EPIC is translated using the function rule

- Describe the transformation in words.

Translate left 5 and up 2

- Identify the mapping for each vertex.

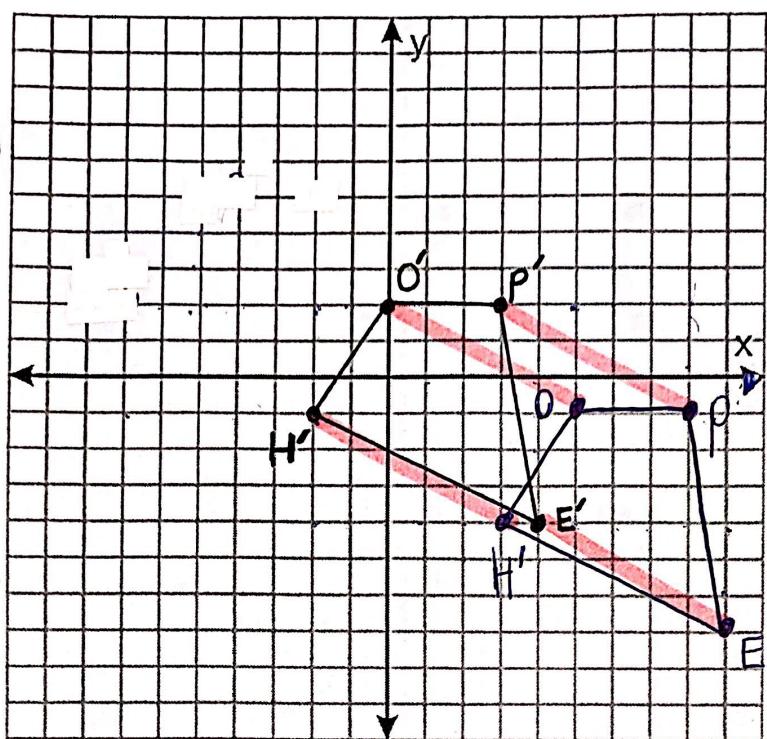


Figure HOPE is translated up 3 units and left 5 units.

- Write the function rule for the translation.

$$f(x, y) = (x + 5, y + 3)$$

- Identify the domain and range.

$$D: \{$$

$$R: \{(-2, -1), (0, 2), (3, 2), (4, -4)\}$$

$$E'(-5, 2)$$

$$H'(-7, 1)$$

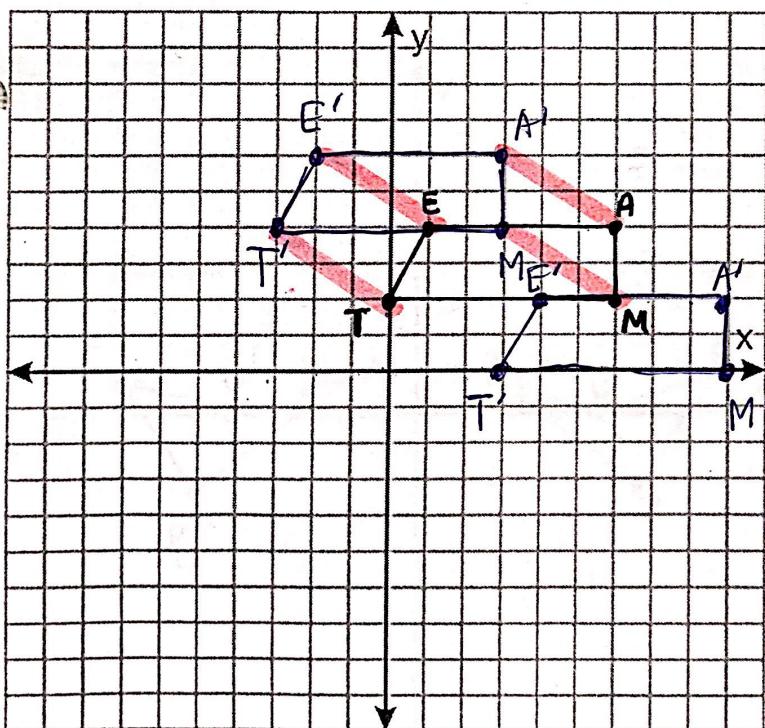


Figure TEAM is translated to create figure $T'E'A'M'$. The slope of $\overline{TT'}$ is $-\frac{2}{3}$.

- Identify possible coordinates of figure $T'E'A'M'$

OR
= $T(3, 0), E(4, 2), A(9, 2), M(9, 0)$
 $T'(-3, 4), E(-2, 6), A(3, 6), M(3, 4)$

- Describe the translation in words.

Translate down 2, Right + 3.

- Write the function rule for the transformation.

$$f(x, y) = (x + 3, y - 2)$$