

Transformations in the Coordinate Plane...

Translating a figure horizontally by "a" units:

$$T(x,y) =$$

Translating a figure vertically by "b" units:

$$T(x,y) =$$

Reflecting a figure across the x-axis:

$$T(x,y) =$$

Reflecting a figure across the y-axis:

$$T(x,y) =$$

Rotating a figure by 180 degrees around the origin:

$$T(x,y) =$$

Write a transformation rule for a figure that is...

[EX1] Translated up 6 and left 5 units.

[EX2] Translated down 3 units and right 8 units.

[EX3] Reflected across the x axis and moved up 3 units.

[EX4] Rotated 180 degrees through the origin then moved left 5 units and up 4 units.

[EX5] Reflected across the y-axis, moved up 10 units, and left 2 units.

[EX6] Reflected across the x-axis, moved down 4 units and left 12 units.

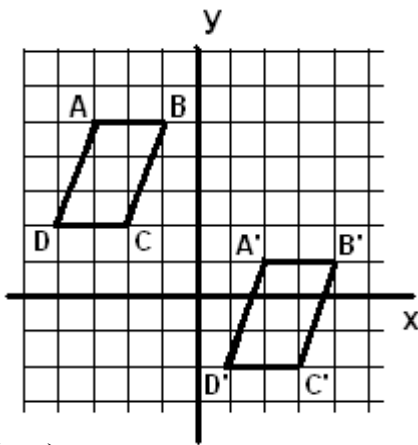
[EX7] Reflected across the x-axis, moved down 3 units, and right 21 units.

[EX8] Reflected across the y-axis, moved up 7 units and right 11 units.

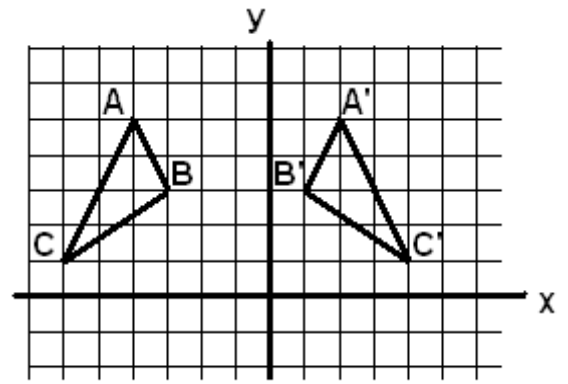
[EX9] Reflected across the y-axis, moved up 13 units, and left 1 unit.

[EX10] Rotated 180 degrees through the origin moved up 5 units and right 9 units.

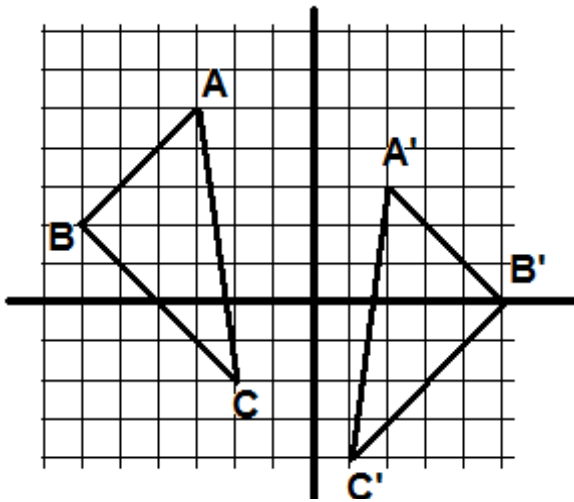
Provide the rule $T(x,y)$ used to transform each of the following figures:



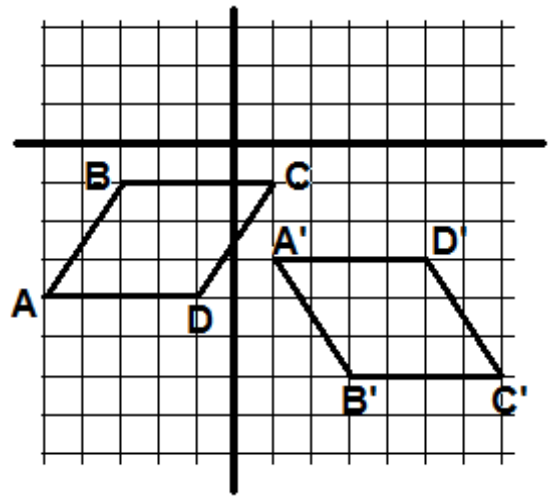
$T(x,y) =$



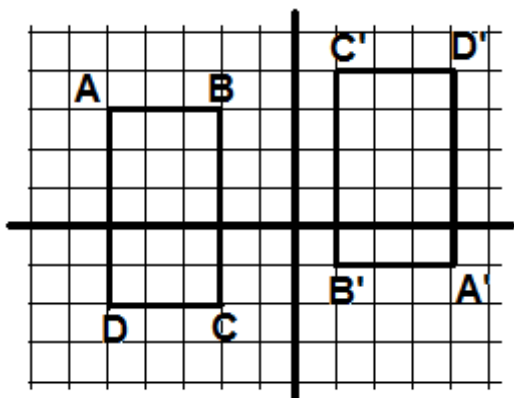
$T(x,y) =$



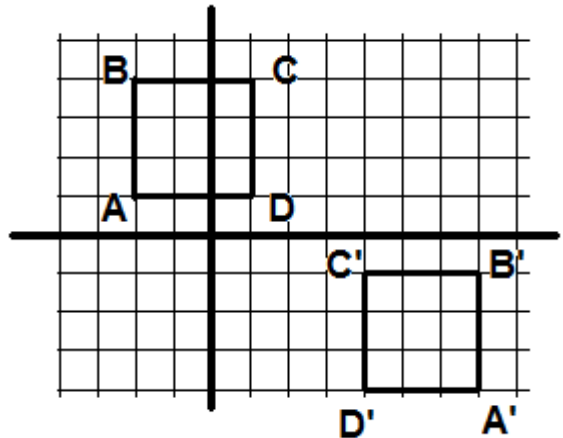
$T(x,y) =$



$T(x,y) =$



$T(x,y) =$



$T(x,y) =$