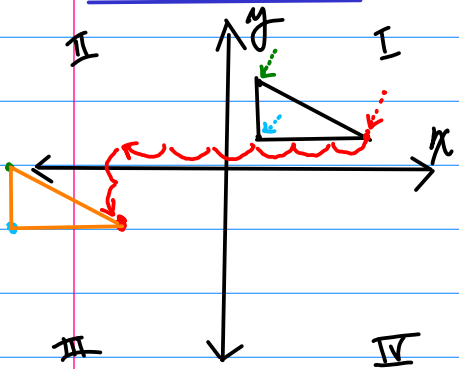


Xformation

Intro to Transformations, Translation

Basic Xformations

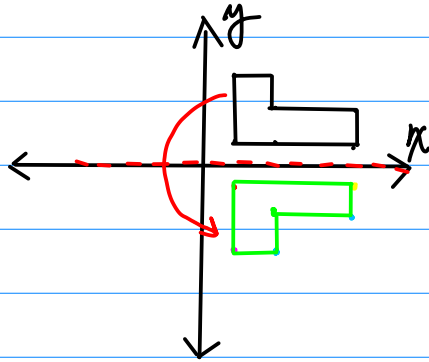
Translation



Shift/slide an image $\uparrow, \downarrow, \leftarrow, \rightarrow$

Ex: left 6 units, down 2u

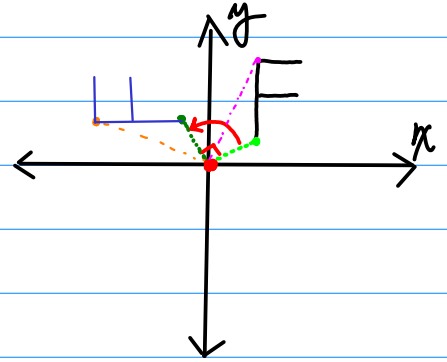
Reflection



flip an image over (in) a line

Ex: reflected image in (over) the x-axis

Rotation



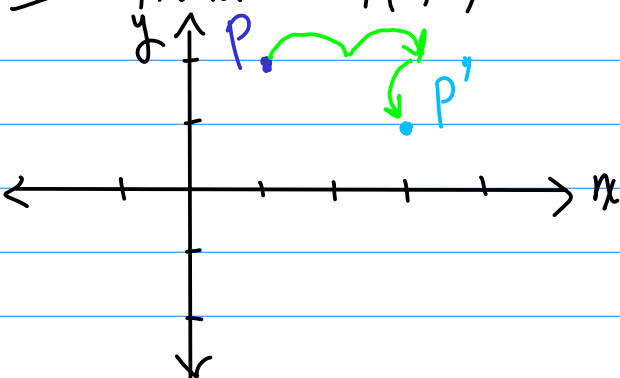
turn an image around (about) a pt.

Ex: rotated the image 90° CCW about the origin
counterclockwise

or 270° CW

* Translation:

Ex: Translate $P(1,2)$ according to this rule: $(x,y) \rightarrow (x+2, y-1)$
 $(1,2) \rightarrow (3,1)$

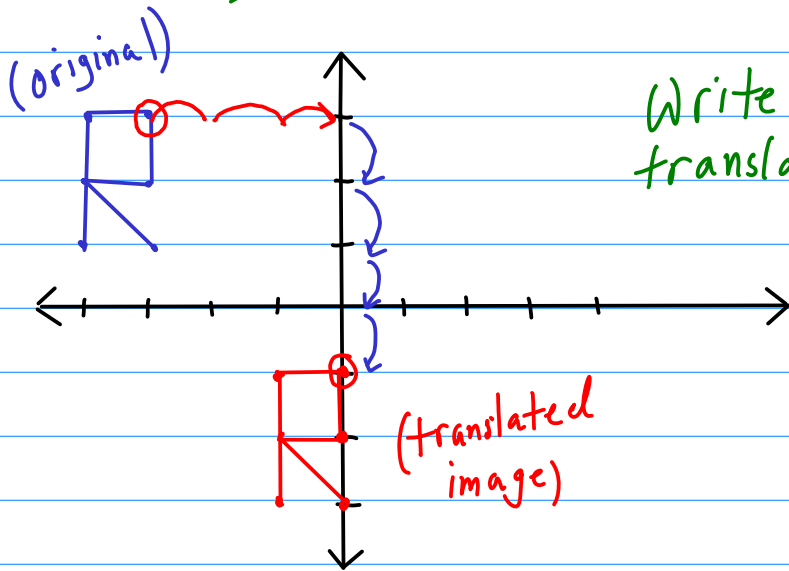


Describe the translation in words. ✓
Right 2u, Down 1u

Ex: Desc. this translation rule in words: $(x, y) \rightarrow (x, y+6)$

Up 6u

Ex:



Write a rule for the translation.

$$(x, y) \rightarrow (x+3, y-4)$$