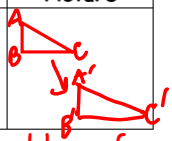
Notes

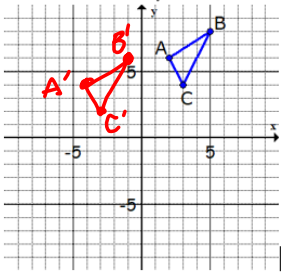
2-1 I can perform a reflection over the x-axis or y-axis and a translation.

Transformation	Action	Picture
Translation	slide	

must say direction and how far

Example problems

Translation Left 6 and Down 2



(x,y) --> (x-6,y-2)

Coordinate Rule

right h units: (x,y) --> (x+h,y)
left h units: (x,y) --> (x-h,y)

up k units: (x,y) --> (x,y+k)
down k units: (x,y) --> (x,y-k)

Transformation	Action	Picture
Reflection	flip mirror	

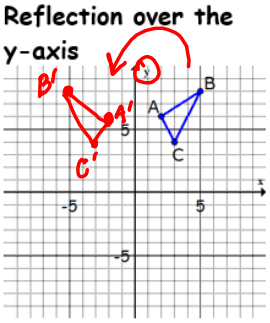
Shapes are congruent

example of showing your work:

(x,y) → (-x,y)

A(2,6) → A'(-2,6)
B(5,8) → B'(-5,8)
C(3,4) → C'(-3,4)

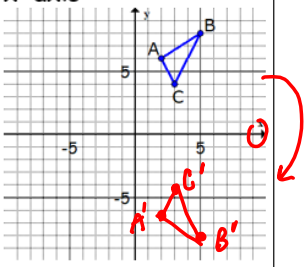
Reflection over the y-axis



Coordinate Rule

(x,y) --> (-x, y)

Reflection over the x-axis



Coordinate Rule

(x,y) --> (x,-y)

switches sign