Geometry

Second Transformation

Reflection: a "Flip" or Mirror image. It reversed the orientation of the preimage. It's an isometry.

To Reflect points on a graph:

1.) Count # of units from each point to the "line of Reflection."

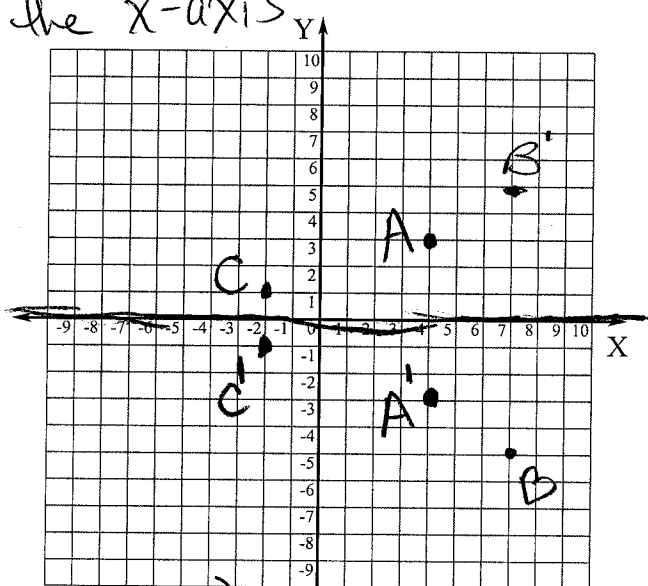2.) The Image will be the same # of units past the line of reflection, on the opposite side.

Tips:
* X-axis runs Left-to-Right
* y-axis runs up-and-down
* X = equations are Vertical
* y = equations are horizontal
* points on the line of Reflection Don't Move

Reflections
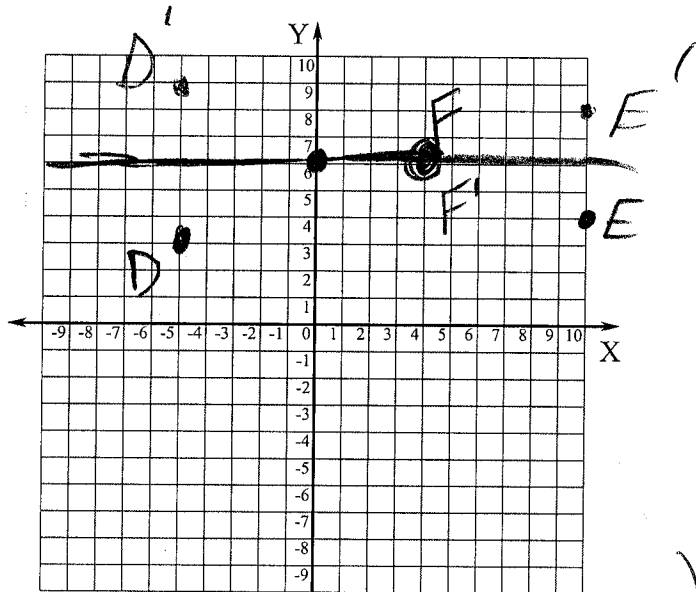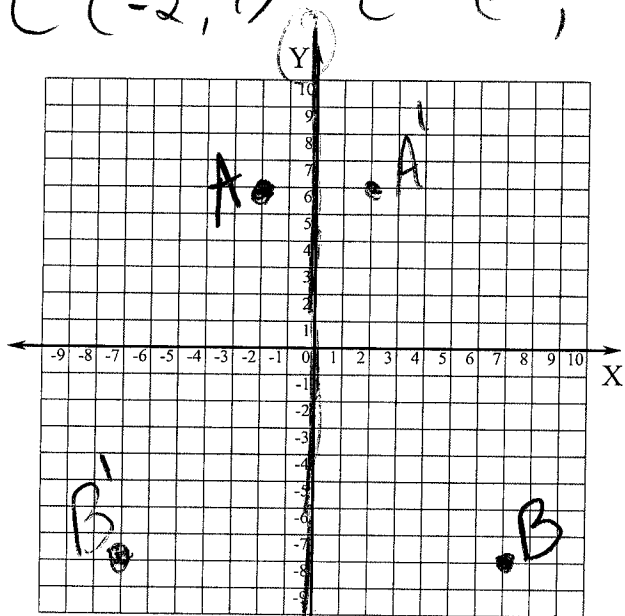
Line of Reflection, Mirror is the x-axis

Line mirror is $y = 6$

A (4, 3)   A' (4, -3)
B (7, -5)   B' (7, 5)
C (-2, 1)   C' (-2, -1)
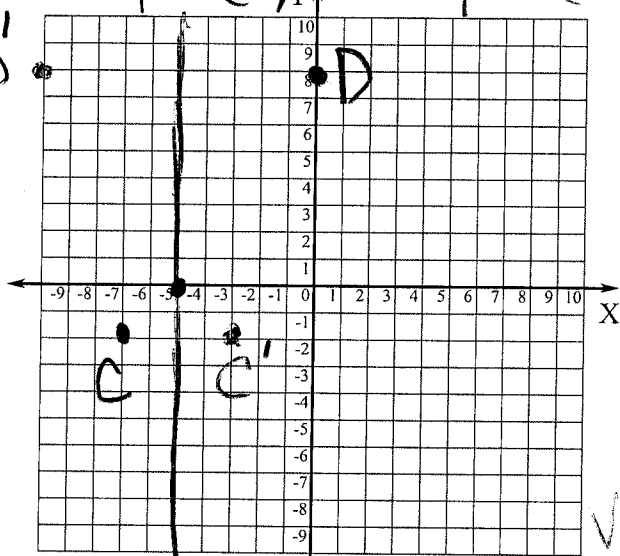

D (-5, 3)   D' (-5, 9)
E (10, 4)   E' (10, 8)
F (4, 6)   F' (4, 6)

Mirror is y-axis

A (-2, 6)   A' (2, 6)
B (7, -8)   B' (-7, -8)

Reflect over X = -5   Vertical   Line

C (-7, -2)   C' (-3, -2)
D (0, 8)   D' (-10, 8)