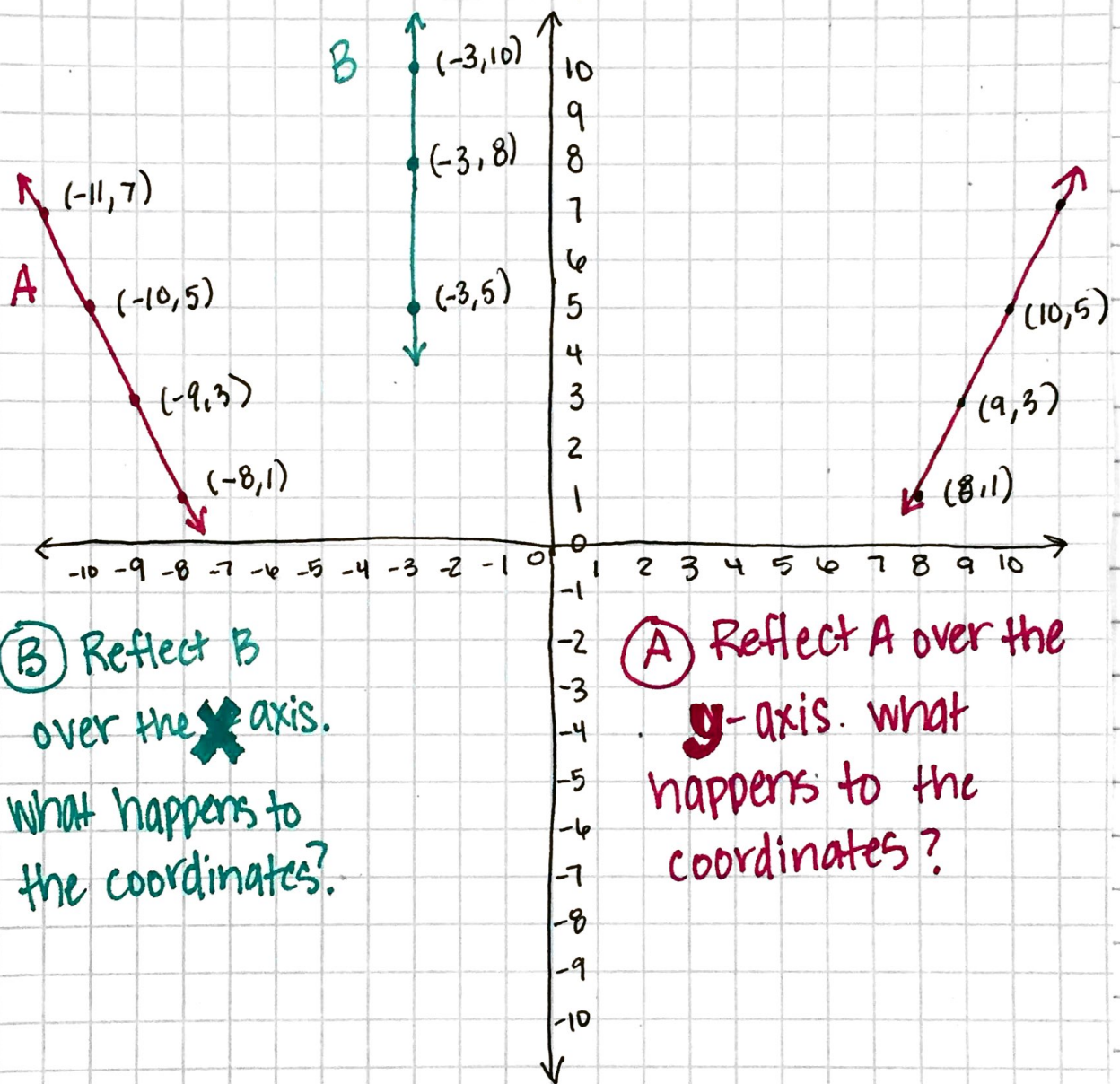


Reflecting Over the X and Y Axis

We can use patterns to develop a rule to reflect coordinates over the x and y axes.



(B) Reflect B over the ~~x~~ y-axis. What happens to the coordinates?

(A) Reflect A over the y-axis. What happens to the coordinates?

□ Reflecting over the x-axis
 $(x, y) \rightarrow (x, -y)$

□ Reflecting over the y-axis
 $(x, y) \rightarrow (-x, y)$

EX. $(-2, 1) \rightarrow (-2, -1)$

EX. $(-6, 4) \rightarrow (6, 4)$

EX. $(10, -4) \rightarrow (10, 4)$

EX. $(5, 2) \rightarrow (-5, 2)$