Hint

Rotation

- The algebraic notation explains how a shape will be moved. $(x, y) \rightarrow (y, -x)$ means the order of the x and y are flipped and the x value becomes the opposite. (-2, 7) would now become (7, 2) because the numbers switch positions and the -2 would become the opposite.

Reflection

- The algebraic notation explains how a shape will be moved. $(x, y) \rightarrow (-x, y)$ means the x value becomes the opposite. (-2, 7) would now become (2, 7).

Translation

- The algebraic notation explains how a shape will be moved. $(x, y) \rightarrow (x - 3, y + 2)$ means the x value is moved 3 units to the left and the y value is moved 2 units up. (-2, 7) would now become (-5, 9).