

Building the Equation of a Line; Parallel and Perpendicular Lines

Set 4-5a

Build the equation of the line in the form $y = mx + b$, given the following information.

- 1) $m = 2$, $(3, 4)$ is a point on the line.

- 2) $(-1, 2)$ and $(4, 5)$ are points on the line.

- 3) $(0, 4)$ and $(2, -1)$ are points on the line.

- 4) The line passes through $(1, 3)$ and is parallel to $y = -2x + 1$.

- 5) The line passes through $(-1, 0)$ and is perpendicular to $y = 5x - 7$.