Lesson 4-5

Building the Equation of a Line; Parallel and Perpendicular Lines

Set 4-5b

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

1) *m = 5, and (1,1) is a point on the line.*

2) $m = -\frac{3}{5}$, *and* $(-2, 1)$ *is a point on the line.*

3) $m = -2$, *and* $(\frac{3}{5}, -6)$ *is a point on the line.*

4) $(-\frac{3}{7}, 2)$, $(5, 1)$ *are points on the line.*

5) *The line passes through the point* $(-3, 4)$ *and is perpendicular to* $2x + y = -\frac{3}{8}$.