

Determining the Equations of Lines – Additional Practice

1. Determine the Equation when given Slope and y-intercept.

a) $m = 2, b = 6$

b) $m = -2, b = 0$

c) $m = \frac{1}{4}, b = -5$

d) $m = -\frac{3}{4}, b = -5$

2. What is the equation when you are given the slope and one point on a line?

a) $m = 2$, line passes through point $(3, 2)$

b) $m = -3$, line passes through point $(1, 4)$

c) $m = 5$, line passes through point $(1, 2)$

d) $m = 6$, line passes through point $(4, 3)$

3. How do you find the equation when you are only given two points that lie on a line?
SHOW ALL YOUR STEPS!!

a) $P_1(3,1)$ $P_2(2,0)$

b) $P_1(5,4)$ $P_2(0,-6)$

c) $P_1(1,4)$ $P_2(2,2)$

d) $P_1(-11,6)$ $P_2(1,4)$

e) $P_1(14,3)$ $P_2(4,2)$

4. Graph the lines from question 3 to check your work.

