Section 8.5   Focus Exercises

1.   For each you are given the slope of a line and a point on the line. Use the information to find b and write the equation of the line.

a) $(1, 7); \ m = 2$

b) $(- 2, 10); \ m = - 3$

Equation: [ ]

Equation: [ ]

c) $(2, - 2); \ m = \dfrac{1}{2}$

d) $(6, - 5); \ m = - \dfrac{2}{3}$

Equation: [ ]

Equation: [ ]

e) $(5, - 2); \ m = - 1$

f) $(6, 2); \ m = \dfrac{4}{3}$

Equation: [ ]

Equation: [ ]

2. For each you are given two points on a line. Find the equation of the line by first finding its slope.

a) $(3, -9)$ and $(1, -5)$

b) $(-2, -4)$ and $(2, 6)$

Equation: [ ]

Equation: [ ]

c) $(-6, 3)$ and $(3, -9)$

d) $(-4, -3)$ and $(8, 0)$

Equation: [ ]

Equation: [ ]

e) $(10, -2)$ and $(-5, 7)$

f) $(-3, 9)$ and $(10, -4)$

Equation: [ ]

Equation: [ ]