

## Standard and Point-Slope Form of a Line

1. Write each equation in standard form and in slope-intercept form. Identify the slope and the  $y$ -intercept.

a)  $6y = -2x - 13$

b)  $3x + 5y + 7 = 0$

c)  $3x = 7y$

d)  $6x - 8 = 2y + 1$

e)  $x = \frac{2}{5}y + 7$

2. Write an equation in slope-intercept form for the line that contains the given point and the given slope.

a)  $m = -4$ ,  $(-2, -5)$

b)  $m = \frac{1}{3}$ ,  $(2, -4)$

c)  $m = 0$ ,  $(1, 7)$

d)  $m = \text{undefined}$ ,  $(0, -4)$

3. Write an equation in slope-intercept form for the line that contains the given points.

a)  $(-7, -3)$ ,  $(6, 8)$

b)  $(0, -4)$ ,  $(4, 2)$

c)  $(0, 8)$ ,  $(2, 8)$

d)  $(-3, 4)$ ,  $(-3, 7)$