- 1. Determine the slope of the given line.
 - (a) 2x 3y = 9
 - **(b)** 2x + y = 9
 - (c) 5x 9y = 11
 - (d) 3x + 2y = 6
 - (e) x 4y = 9

- (f) 2x 3y = 11
- (g) 3x 4y = 5
- **(h)** y = x 1
- (i) y = 2x
- (j) 5x 9y = 11
- **(k)** x y = 4

- (I) x + y = 8
- (m) 3x + 2y = 6
- (n) 2x 3y = 9
- (o) 2x + y = 9
- **(p)** 5x 2y = 13
- 2. Find the equation of the line that passes through the given points.
 - (a) (0, 9), (-1, 2)

(e) (2, 4), (-1, 3)

- **(b)** (-5, 4), (8, 2)
- (c) (11, 6), (4, -22)
- **(d)** (4, 0), (0, 4)

- (f) (12, -3), (-7, 6)
- (g) (0, -8), (0, 0)
- **(h)** (2, 4), (-7, 6)
- **3.** Determine the equation of the line that has the given slope m and that passes through the specified point.
 - (a) (0, -8), $m = \frac{2}{3}$
 - **(b)** (-7, 6), m = -4

- (c) (3, 11), m = -5
- (d) $(12, -3), m = -\frac{3}{5}$
- (e) (2, 4), m = 0
- 3. Find the equation of the line using the given information.
 - (a) Through the point (0, -8) and parallel to the line with slope $m = \frac{2}{3}$.
 - **(b)** Through the point (-7, 6) and perpendicular to the line with slope m = -4.
 - (c) Through the point (12, -3) and parallel to the line 3y 7x = 8.
 - (d) Through (2, 4) and perpendicular to the line 8x + 9y = 3
 - (e) Through the point (9, 5) and parallel to the line y = 5x + 4
 - (f) Through the point (4, 8) and parallel to the line 4x 5y 22 = 0
 - (g) Through the point (7, -6) and perpendicular to the line 4x 5y 22 = 0
 - (h) Through the origin and perpendicular to the line 7y + 9x 8 = 5
 - (i) Through the y-intercept of the line 3x 7y = 14 and parallel to the line 3y 7x = 5
 - (j) Through the x-intercept of the line 8x 3y = 48 and perpendicular to the line 8x + 3y = 9
- **5.** Determine the x-intercept and the y-intercept for the given lines.
 - (a) x y = 4
 - **(b)** 2x + y = 3
 - (c) x y + 2 = 0
 - (d) 3x + 2y = 5
 - (e) x 4y = 9

- (f) 2x 3y = 11
- (g) 3x 4y = 5
- **(h)** y = x 1
- (i) y = 2x
- (j) 5x 9y = 11
- **(k)** x y = 4

- (I) x + y = 8
- (m) 3x + 2y = 6
- (n) 2x 3y = 9
- (...
- **(o)** 2x + y = 9
- (p) 5x 2y = 13