

## Linear Equations (A)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-4$     Point:  $(-1,-3)$

2. Slope:  $-\frac{1}{9}$     Point:  $(-9,6)$

3. Slope:  $3$     Point:  $(1,-1)$

4. Slope:  $-\frac{11}{4}$     Point:  $(4,-4)$

5. Slope: undefined    Point:  $(-4,-8)$

6. Slope:  $\frac{10}{9}$     Point:  $(-9,-9)$

7. Slope:  $\frac{4}{7}$     Point:  $(7,-3)$

8. Slope:  $\frac{3}{4}$     Point:  $(-4,6)$

9. Slope:  $-\frac{4}{3}$     Point:  $(-9,5)$

10. Slope:  $-\frac{13}{4}$     Point:  $(4,-8)$

# Linear Equations (A) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-4$  Point:  $(-1,-3)$

$$y - (-3) = -4(x - (-1))$$

$$y = -4x - 7$$

2. Slope:  $-\frac{1}{9}$  Point:  $(-9,6)$

$$y - 6 = -\frac{1}{9}(x - (-9))$$

$$y = -\frac{1}{9}x + 5$$

3. Slope:  $3$  Point:  $(1,-1)$

$$y - (-1) = 3(x - 1)$$

$$y = 3x - 4$$

4. Slope:  $-\frac{11}{4}$  Point:  $(4,-4)$

$$y - (-4) = -\frac{11}{4}(x - 4)$$

$$y = -\frac{11}{4}x + 7$$

5. Slope: undefined Point:  $(-4,-8)$

$$x = -4$$

6. Slope:  $\frac{10}{9}$  Point:  $(-9,-9)$

$$y - (-9) = \frac{10}{9}(x - (-9))$$

$$y = \frac{10}{9}x + 1$$

7. Slope:  $\frac{4}{7}$  Point:  $(7,-3)$

$$y - (-3) = \frac{4}{7}(x - 7)$$

$$y = \frac{4}{7}x - 7$$

8. Slope:  $\frac{3}{4}$  Point:  $(-4,6)$

$$y - 6 = \frac{3}{4}(x - (-4))$$

$$y = \frac{3}{4}x + 9$$

9. Slope:  $-\frac{4}{3}$  Point:  $(-9,5)$

$$y - 5 = -\frac{4}{3}(x - (-9))$$

$$y = -\frac{4}{3}x - 7$$

10. Slope:  $-\frac{13}{4}$  Point:  $(4,-8)$

$$y - (-8) = -\frac{13}{4}(x - 4)$$

$$y = -\frac{13}{4}x + 5$$

## Linear Equations (B)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{7}{8}$     Point: (-8,-7)

2. Slope:  $-1$     Point: (-6,7)

3. Slope:  $\frac{1}{2}$     Point: (2,7)

4. Slope: 4    Point: (1,2)

5. Slope:  $-1$     Point: (-2,-2)

6. Slope:  $-\frac{1}{2}$     Point: (8,-7)

7. Slope: 1    Point: (3,-1)

8. Slope:  $-\frac{7}{8}$     Point: (8,1)

9. Slope:  $-4$     Point: (-2,2)

10. Slope: 0    Point: (-2,-1)

## Linear Equations (B) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{7}{8}$  Point: (-8,-7)

$$y - (-7) = \frac{7}{8}(x - (-8))$$

$$y = \frac{7}{8}x$$

2. Slope:  $-1$  Point: (-6,7)

$$y - 7 = -1(x - (-6))$$

$$y = -x + 1$$

3. Slope:  $\frac{1}{2}$  Point: (2,7)

$$y - 7 = \frac{1}{2}(x - 2)$$

$$y = \frac{1}{2}x + 6$$

4. Slope: 4 Point: (1,2)

$$y - 2 = 4(x - 1)$$

$$y = 4x - 2$$

5. Slope:  $-1$  Point: (-2,-2)

$$y - (-2) = -1(x - (-2))$$

$$y = -x - 4$$

6. Slope:  $-\frac{1}{2}$  Point: (8,-7)

$$y - (-7) = -\frac{1}{2}(x - 8)$$

$$y = -\frac{1}{2}x - 3$$

7. Slope: 1 Point: (3,-1)

$$y - (-1) = 1(x - 3)$$

$$y = x - 4$$

8. Slope:  $-\frac{7}{8}$  Point: (8,1)

$$y - 1 = -\frac{7}{8}(x - 8)$$

$$y = -\frac{7}{8}x + 8$$

9. Slope:  $-4$  Point: (-2,2)

$$y - 2 = -4(x - (-2))$$

$$y = -4x - 6$$

10. Slope: 0 Point: (-2,-1)

$$y - (-1) = 0(x - (-2))$$

$$y = -1$$

## Linear Equations (C)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{13}{3}$     Point: (3,8)

2. Slope: 13    Point: (1,7)

3. Slope: 11    Point: (-1,-9)

4. Slope:  $\frac{9}{7}$     Point: (-7,-2)

5. Slope: 6    Point: (-1,-7)

6. Slope: undefined    Point: (5,-5)

7. Slope:  $\frac{9}{2}$     Point: (2,3)

8. Slope:  $-\frac{5}{3}$     Point: (-3,2)

9. Slope:  $\frac{4}{3}$     Point: (9,6)

10. Slope:  $-\frac{11}{6}$     Point: (-6,5)

## Linear Equations (C) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{13}{3}$     Point: (3,8)

$$y - 8 = \frac{13}{3}(x - 3)$$

$$y = \frac{13}{3}x - 5$$

2. Slope: 13    Point: (1,7)

$$y - 7 = 13(x - 1)$$

$$y = 13x - 6$$

3. Slope: 11    Point: (-1,-9)

$$y - (-9) = 11(x - (-1))$$

$$y = 11x + 2$$

4. Slope:  $\frac{9}{7}$     Point: (-7,-2)

$$y - (-2) = \frac{9}{7}(x - (-7))$$

$$y = \frac{9}{7}x + 7$$

5. Slope: 6    Point: (-1,-7)

$$y - (-7) = 6(x - (-1))$$

$$y = 6x - 1$$

6. Slope: undefined    Point: (5,-5)

$$x = 5$$

7. Slope:  $\frac{9}{2}$     Point: (2,3)

$$y - 3 = \frac{9}{2}(x - 2)$$

$$y = \frac{9}{2}x - 6$$

8. Slope:  $-\frac{5}{3}$     Point: (-3,2)

$$y - 2 = -\frac{5}{3}(x - (-3))$$

$$y = -\frac{5}{3}x - 3$$

9. Slope:  $\frac{4}{3}$     Point: (9,6)

$$y - 6 = \frac{4}{3}(x - 9)$$

$$y = \frac{4}{3}x - 6$$

10. Slope:  $-\frac{11}{6}$     Point: (-6,5)

$$y - 5 = -\frac{11}{6}(x - (-6))$$

$$y = -\frac{11}{6}x - 6$$

## Linear Equations (D)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-15$     Point:  $(1,-7)$                       2. Slope: undefined    Point:  $(2,-2)$

3. Slope:  $4$     Point:  $(-2,-1)$                       4. Slope:  $\frac{7}{5}$     Point:  $(-5,-1)$

5. Slope:  $-\frac{7}{5}$     Point:  $(5,1)$                       6. Slope:  $4$     Point:  $(-4,-7)$

7. Slope:  $2$     Point:  $(8,9)$                       8. Slope:  $\frac{5}{2}$     Point:  $(2,1)$

9. Slope:  $\frac{1}{2}$     Point:  $(2,4)$                       10. Slope:  $-\frac{13}{3}$     Point:  $(3,-5)$

## Linear Equations (D) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-15$     Point:  $(1,-7)$

$$y - (-7) = -15(x - 1)$$

$$y = -15x + 8$$

2. Slope: undefined    Point:  $(2,-2)$

$$x = 2$$

3. Slope:  $4$     Point:  $(-2,-1)$

$$y - (-1) = 4(x - (-2))$$

$$y = 4x + 7$$

4. Slope:  $\frac{7}{5}$     Point:  $(-5,-1)$

$$y - (-1) = \frac{7}{5}(x - (-5))$$

$$y = \frac{7}{5}x + 6$$

5. Slope:  $-\frac{7}{5}$     Point:  $(5,1)$

$$y - 1 = -\frac{7}{5}(x - 5)$$

$$y = -\frac{7}{5}x + 8$$

6. Slope:  $4$     Point:  $(-4,-7)$

$$y - (-7) = 4(x - (-4))$$

$$y = 4x + 9$$

7. Slope:  $2$     Point:  $(8,9)$

$$y - 9 = 2(x - 8)$$

$$y = 2x - 7$$

8. Slope:  $\frac{5}{2}$     Point:  $(2,1)$

$$y - 1 = \frac{5}{2}(x - 2)$$

$$y = \frac{5}{2}x - 4$$

9. Slope:  $\frac{1}{2}$     Point:  $(2,4)$

$$y - 4 = \frac{1}{2}(x - 2)$$

$$y = \frac{1}{2}x + 3$$

10. Slope:  $-\frac{13}{3}$     Point:  $(3,-5)$

$$y - (-5) = -\frac{13}{3}(x - 3)$$

$$y = -\frac{13}{3}x + 8$$



## Linear Equations (E)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-\frac{9}{7}$  Point:  $(-7,4)$

2. Slope:  $\frac{1}{8}$  Point:  $(8,0)$

3. Slope:  $-\frac{1}{4}$  Point:  $(-4,2)$

4. Slope:  $\frac{1}{8}$  Point:  $(8,-2)$

5. Slope:  $\frac{7}{4}$  Point:  $(4,6)$

6. Slope:  $-\frac{1}{3}$  Point:  $(-6,9)$

7. Slope:  $-3$  Point:  $(-2,-3)$

8. Slope:  $\frac{7}{4}$  Point:  $(4,8)$

9. Slope:  $-\frac{5}{9}$  Point:  $(-9,4)$

10. Slope:  $-\frac{1}{3}$  Point:  $(3,-6)$

## Linear Equations (E) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-\frac{9}{7}$  Point: (-7,4)

$$y - 4 = -\frac{9}{7}(x - (-7))$$

$$y = -\frac{9}{7}x - 5$$

2. Slope:  $\frac{1}{8}$  Point: (8,0)

$$y - 0 = \frac{1}{8}(x - 8)$$

$$y = \frac{1}{8}x - 1$$

3. Slope:  $-\frac{1}{4}$  Point: (-4,2)

$$y - 2 = -\frac{1}{4}(x - (-4))$$

$$y = -\frac{1}{4}x + 1$$

4. Slope:  $\frac{1}{8}$  Point: (8,-2)

$$y - (-2) = \frac{1}{8}(x - 8)$$

$$y = \frac{1}{8}x - 3$$

5. Slope:  $\frac{7}{4}$  Point: (4,6)

$$y - 6 = \frac{7}{4}(x - 4)$$

$$y = \frac{7}{4}x - 1$$

6. Slope:  $-\frac{1}{3}$  Point: (-6,9)

$$y - 9 = -\frac{1}{3}(x - (-6))$$

$$y = -\frac{1}{3}x + 7$$

7. Slope:  $-3$  Point: (-2,-3)

$$y - (-3) = -3(x - (-2))$$

$$y = -3x - 9$$

8. Slope:  $\frac{7}{4}$  Point: (4,8)

$$y - 8 = \frac{7}{4}(x - 4)$$

$$y = \frac{7}{4}x + 1$$

9. Slope:  $-\frac{5}{9}$  Point: (-9,4)

$$y - 4 = -\frac{5}{9}(x - (-9))$$

$$y = -\frac{5}{9}x - 1$$

10. Slope:  $-\frac{1}{3}$  Point: (3,-6)

$$y - (-6) = -\frac{1}{3}(x - 3)$$

$$y = -\frac{1}{3}x - 5$$

## Linear Equations (F)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{2}{3}$     Point: (6,4)

2. Slope:  $-\frac{5}{4}$     Point: (8,-6)

3. Slope: 7    Point: (1,7)

4. Slope:  $\frac{4}{9}$     Point: (9,2)

5. Slope:  $\frac{13}{3}$     Point: (-3,-6)

6. Slope:  $\frac{2}{9}$     Point: (9,-2)

7. Slope:  $-3$     Point: (1,-2)

8. Slope: 4    Point: (-1,1)

9. Slope: 2    Point: (4,7)

10. Slope:  $-\frac{3}{8}$     Point: (8,-1)

## Linear Equations (F) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{2}{3}$  Point: (6,4)

$$y - 4 = \frac{2}{3}(x - 6)$$

$$y = \frac{2}{3}x$$

2. Slope:  $-\frac{5}{4}$  Point: (8,-6)

$$y - (-6) = -\frac{5}{4}(x - 8)$$

$$y = -\frac{5}{4}x + 4$$

3. Slope: 7 Point: (1,7)

$$y - 7 = 7(x - 1)$$

$$y = 7x$$

4. Slope:  $\frac{4}{9}$  Point: (9,2)

$$y - 2 = \frac{4}{9}(x - 9)$$

$$y = \frac{4}{9}x - 2$$

5. Slope:  $\frac{13}{3}$  Point: (-3,-6)

$$y - (-6) = \frac{13}{3}(x - (-3))$$

$$y = \frac{13}{3}x + 7$$

6. Slope:  $\frac{2}{9}$  Point: (9,-2)

$$y - (-2) = \frac{2}{9}(x - 9)$$

$$y = \frac{2}{9}x - 4$$

7. Slope:  $-3$  Point: (1,-2)

$$y - (-2) = -3(x - 1)$$

$$y = -3x + 1$$

8. Slope: 4 Point: (-1,1)

$$y - 1 = 4(x - (-1))$$

$$y = 4x + 5$$

9. Slope: 2 Point: (4,7)

$$y - 7 = 2(x - 4)$$

$$y = 2x - 1$$

10. Slope:  $-\frac{3}{8}$  Point: (8,-1)

$$y - (-1) = -\frac{3}{8}(x - 8)$$

$$y = -\frac{3}{8}x + 2$$

## Linear Equations (G)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{5}{3}$     Point: (-6,-6)

2. Slope:  $-\frac{4}{7}$     Point: (-7,2)

3. Slope:  $\frac{10}{7}$     Point: (7,2)

4. Slope:  $-\frac{3}{7}$     Point: (7,-7)

5. Slope:  $-3$     Point: (2,3)

6. Slope:  $-\frac{2}{3}$     Point: (-9,0)

7. Slope:  $-\frac{7}{4}$     Point: (-8,7)

8. Slope: undefined    Point: (-1,4)

9. Slope: 2    Point: (-2,4)

10. Slope:  $-4$     Point: (-1,5)

## Linear Equations (G) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{5}{3}$  Point: (-6,-6)

$$y - (-6) = \frac{5}{3}(x - (-6))$$

$$y = \frac{5}{3}x + 4$$

2. Slope:  $-\frac{4}{7}$  Point: (-7,2)

$$y - 2 = -\frac{4}{7}(x - (-7))$$

$$y = -\frac{4}{7}x - 2$$

3. Slope:  $\frac{10}{7}$  Point: (7,2)

$$y - 2 = \frac{10}{7}(x - 7)$$

$$y = \frac{10}{7}x - 8$$

4. Slope:  $-\frac{3}{7}$  Point: (7,-7)

$$y - (-7) = -\frac{3}{7}(x - 7)$$

$$y = -\frac{3}{7}x - 4$$

5. Slope:  $-3$  Point: (2,3)

$$y - 3 = -3(x - 2)$$

$$y = -3x + 9$$

6. Slope:  $-\frac{2}{3}$  Point: (-9,0)

$$y - 0 = -\frac{2}{3}(x - (-9))$$

$$y = -\frac{2}{3}x - 6$$

7. Slope:  $-\frac{7}{4}$  Point: (-8,7)

$$y - 7 = -\frac{7}{4}(x - (-8))$$

$$y = -\frac{7}{4}x - 7$$

8. Slope: undefined Point: (-1,4)

$$x = -1$$

9. Slope: 2 Point: (-2,4)

$$y - 4 = 2(x - (-2))$$

$$y = 2x + 8$$

10. Slope:  $-4$  Point: (-1,5)

$$y - 5 = -4(x - (-1))$$

$$y = -4x + 1$$

## Linear Equations (H)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-1$     Point:  $(-1,3)$

2. Slope:  $\frac{11}{7}$     Point:  $(7,7)$

3. Slope:  $-\frac{5}{2}$     Point:  $(-4,3)$

4. Slope: undefined    Point:  $(6,-6)$

5. Slope:  $\frac{1}{4}$     Point:  $(4,-6)$

6. Slope:  $-\frac{11}{9}$     Point:  $(9,-3)$

7. Slope:  $\frac{1}{4}$     Point:  $(-4,-3)$

8. Slope:  $\frac{9}{4}$     Point:  $(-4,-7)$

9. Slope:  $-\frac{1}{9}$     Point:  $(-9,9)$

10. Slope:  $\frac{5}{9}$     Point:  $(-9,2)$

# Linear Equations (H) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-1$  Point:  $(-1,3)$

$$y - 3 = -1(x - (-1))$$

$$y = -x + 2$$

2. Slope:  $\frac{11}{7}$  Point:  $(7,7)$

$$y - 7 = \frac{11}{7}(x - 7)$$

$$y = \frac{11}{7}x - 4$$

3. Slope:  $-\frac{5}{2}$  Point:  $(-4,3)$

$$y - 3 = -\frac{5}{2}(x - (-4))$$

$$y = -\frac{5}{2}x - 7$$

4. Slope: undefined Point:  $(6,-6)$

$$x = 6$$

5. Slope:  $\frac{1}{4}$  Point:  $(4,-6)$

$$y - (-6) = \frac{1}{4}(x - 4)$$

$$y = \frac{1}{4}x - 7$$

6. Slope:  $-\frac{11}{9}$  Point:  $(9,-3)$

$$y - (-3) = -\frac{11}{9}(x - 9)$$

$$y = -\frac{11}{9}x + 8$$

7. Slope:  $\frac{1}{4}$  Point:  $(-4,-3)$

$$y - (-3) = \frac{1}{4}(x - (-4))$$

$$y = \frac{1}{4}x - 2$$

8. Slope:  $\frac{9}{4}$  Point:  $(-4,-7)$

$$y - (-7) = \frac{9}{4}(x - (-4))$$

$$y = \frac{9}{4}x + 2$$

9. Slope:  $-\frac{1}{9}$  Point:  $(-9,9)$

$$y - 9 = -\frac{1}{9}(x - (-9))$$

$$y = -\frac{1}{9}x + 8$$

10. Slope:  $\frac{5}{9}$  Point:  $(-9,2)$

$$y - 2 = \frac{5}{9}(x - (-9))$$

$$y = \frac{5}{9}x + 7$$



# Linear Equations (I)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{7}{3}$     Point: (-3,-9)

2. Slope:  $-\frac{11}{2}$     Point: (-2,4)

3. Slope:  $\frac{1}{4}$     Point: (-4,2)

4. Slope:  $-\frac{7}{3}$     Point: (-3,8)

5. Slope:  $-10$     Point: (-1,8)

6. Slope:  $-11$     Point: (-1,6)

7. Slope:  $-\frac{5}{7}$     Point: (-7,7)

8. Slope:  $-\frac{1}{2}$     Point: (8,-8)

9. Slope:  $-\frac{17}{9}$     Point: (9,-8)

10. Slope: 1    Point: (-2,-6)

# Linear Equations (I) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $\frac{7}{3}$  Point: (-3,-9)

$$y - (-9) = \frac{7}{3}(x - (-3))$$

$$y = \frac{7}{3}x - 2$$

2. Slope:  $-\frac{11}{2}$  Point: (-2,4)

$$y - 4 = -\frac{11}{2}(x - (-2))$$

$$y = -\frac{11}{2}x - 7$$

3. Slope:  $\frac{1}{4}$  Point: (-4,2)

$$y - 2 = \frac{1}{4}(x - (-4))$$

$$y = \frac{1}{4}x + 3$$

4. Slope:  $-\frac{7}{3}$  Point: (-3,8)

$$y - 8 = -\frac{7}{3}(x - (-3))$$

$$y = -\frac{7}{3}x + 1$$

5. Slope:  $-10$  Point: (-1,8)

$$y - 8 = -10(x - (-1))$$

$$y = -10x - 2$$

6. Slope:  $-11$  Point: (-1,6)

$$y - 6 = -11(x - (-1))$$

$$y = -11x - 5$$

7. Slope:  $-\frac{5}{7}$  Point: (-7,7)

$$y - 7 = -\frac{5}{7}(x - (-7))$$

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

8. Slope:  $-\frac{1}{2}$  Point: (8,-8)

$$y - (-8) = -\frac{1}{2}(x - 8)$$

$$y = -\frac{1}{2}x - 4$$

9. Slope:  $-\frac{17}{9}$  Point: (9,-8)

$$y - (-8) = -\frac{17}{9}(x - 9)$$

$$y = -\frac{17}{9}x + 9$$

10. Slope: 1 Point: (-2,-6)

$$y - (-6) = 1(x - (-2))$$

$$y = x - 4$$

## Linear Equations (J)

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-3$     Point:  $(3,-9)$

2. Slope:  $-\frac{3}{4}$     Point:  $(-8,8)$

3. Slope:  $-\frac{1}{9}$     Point:  $(9,-6)$

4. Slope:  $0$     Point:  $(-6,0)$

5. Slope:  $-5$     Point:  $(1,1)$

6. Slope: undefined    Point:  $(-2,-10)$

7. Slope:  $0$     Point:  $(3,7)$

8. Slope:  $\frac{1}{5}$     Point:  $(5,4)$

9. Slope:  $-\frac{13}{4}$     Point:  $(-4,7)$

10. Slope:  $\frac{1}{3}$     Point:  $(-6,6)$

## Linear Equations (J) Answers

Point-Slope Form ( $y - y_1 = m(x - x_1)$ )

Write the equation of each line in point-slope form then solve for y.

1. Slope:  $-3$  Point:  $(3,-9)$

$$y - (-9) = -3(x - 3)$$

$$y = -3x$$

2. Slope:  $-\frac{3}{4}$  Point:  $(-8,8)$

$$y - 8 = -\frac{3}{4}(x - (-8))$$

$$y = -\frac{3}{4}x + 2$$

3. Slope:  $-\frac{1}{9}$  Point:  $(9,-6)$

$$y - (-6) = -\frac{1}{9}(x - 9)$$

$$y = -\frac{1}{9}x - 5$$

4. Slope:  $0$  Point:  $(-6,0)$

$$y - 0 = 0(x - (-6))$$

$$y = 0$$

5. Slope:  $-5$  Point:  $(1,1)$

$$y - 1 = -5(x - 1)$$

$$y = -5x + 6$$

6. Slope: undefined Point:  $(-2,-10)$

$$x = -2$$

7. Slope:  $0$  Point:  $(3,7)$

$$y - 7 = 0(x - 3)$$

$$y = 7$$

8. Slope:  $\frac{1}{5}$  Point:  $(5,4)$

$$y - 4 = \frac{1}{5}(x - 5)$$

$$y = \frac{1}{5}x + 3$$

9. Slope:  $-\frac{13}{4}$  Point:  $(-4,7)$

$$y - 7 = -\frac{13}{4}(x - (-4))$$

$$y = -\frac{13}{4}x - 6$$

10. Slope:  $\frac{1}{3}$  Point:  $(-6,6)$

$$y - 6 = \frac{1}{3}(x - (-6))$$

$$y = \frac{1}{3}x + 8$$