

Writing Equations of Lines

2. Given each slope and y -intercept, write the equation of the line, and then graph the line.

a) slope: 1, y -intercept: -1

b) slope: 3, y -intercept: 8

c) slope: $-\frac{2}{3}$, y -intercept: 0

d) slope: 0, y -intercept: -2

5. Determine the equation of each line given the slope and the coordinates of one point on the line.

a) $m = 2$, $A(4, 4)$

b) $m = 1$, $B(3, 7)$

c) $m = -3$, $C(2, -1)$

d) $m = 0$, $D(-2, -5)$

e) $m = -2$, $E(1, 1)$

f) $m = 3$, $F(-4, -5)$

g) $m = 0.5$, $G(0, 5)$

h) $m = -\frac{3}{2}$, $H(-3, 0)$

7. Determine the equation of the line passing through the given points.

a) $C(2, 2)$ and $D(3, 7)$

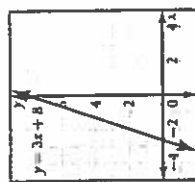
b) $J(-1, 4)$ and $K(5, 13)$

c) $L(0, 0)$ and $M(100, -50)$

d) $Q(-2, -3)$ and $R(1, 6)$

e) $U(-9, 0)$ and $V(3, -8)$

f) $Y(-25, 16)$ and $Z(15, 0)$



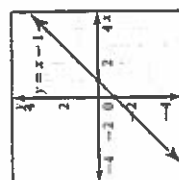
b)



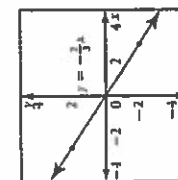
d)

b) 11

d) 5



2. a)



c)

3. a) -1

c) 0.5

4. a) $y = 40x + 50$

b) 9

5. a) $y = 2x - 4$

c) $y = -3x + 5$

e) $y = -2x + 3$

g) $y = 0.5x + 5$

6. a) 2

b) 17

c) 95

d) -33

7. a) $y = 5x - 8$

b) $y = 1.5x + 5.5$

c) $y = \frac{1}{2}x$

d) $y = 3x + 3$

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

f) $y = -0.4x + 6$