

**Find the slope of the line passing through the given pair of points.**

1) (5, 1) and (8, 3)

2) (-7, 1) and (-7, -6)

3) (6, -2) and (6, 3)

4) (-18, -9) and (8, -19)

**Find the slope of the line.**

5)  $y = 2x - 6$

6)  $4x - 5y = 34$

7)  $x = 10$

8) A line parallel to  $-4y + 3x = 8$

9) A line perpendicular to  $-5x + 2y = -20$

**Find an equation in slope-intercept form (where possible) for the line.**

10) Through  $(0, 3)$ ,  $m = \frac{1}{2}$

11) Through (4, 5),  $m = -2$

12) Through (4, 7), with undefined slope

13) Through (3, 5),  $m = -\frac{4}{9}$

14) Through (0, 1),  $m = \frac{3}{5}$

15) Through (-1, 6),  $m = 2.5$

16) Through  $(3, 2)$  and  $(-3, 11)$

17) Through  $(2, -7)$  and  $(-5, 1)$

18) Through  $(4, 3)$  and  $(4, 6)$

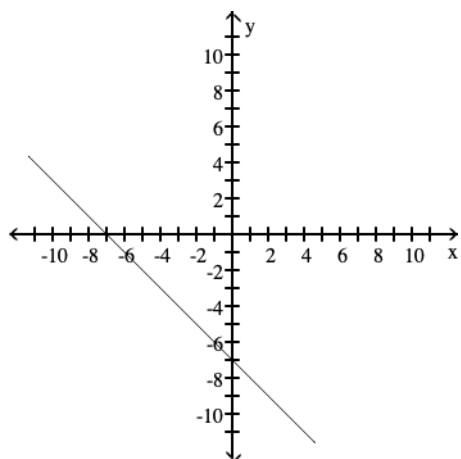
19) Through  $(2, -7)$ , parallel to  $4x + 7y = -27$

20) Through  $(-8, -2)$ , perpendicular to  $x = -5$

21) The line with x-intercept  $-10$  and perpendicular to  $3x - y = 7$

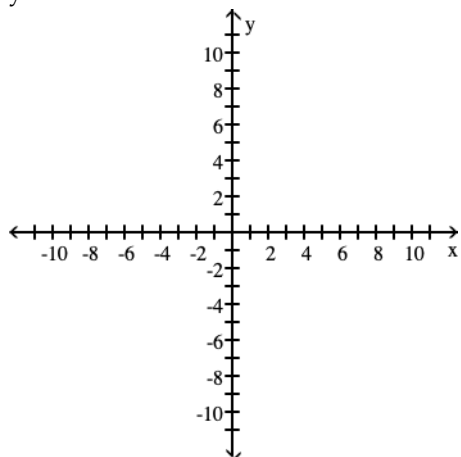
**Find the slope of the line.**

22)



**Graph the equation.**

23)  $y = 3x - 4$



Answer Key

Testname: MATH230\_LIAL\_HW1

1)  $\frac{2}{3}$

2) Not defined

3) Not defined

4)  $-\frac{5}{13}$

5) 2

6)  $\frac{4}{5}$

7) Not defined

8)  $\frac{3}{4}$

9)  $-\frac{2}{5}$

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

11)  $y = -2x + 13$

12)  $x = 4$

13)  $y = -\frac{4}{9}x + \frac{19}{3}$

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

15)  $y = 2.5x + 8.5$

16)  $y = -\frac{3}{2}x + \frac{13}{2}$

17)  $y = -\frac{8}{7}x - \frac{33}{7}$

18)  $x = 4$

19)  $y = -\frac{4}{7}x - \frac{41}{7}$

20)  $y = -2$

21)  $y = -\frac{1}{3}x - \frac{10}{3}$

22) -1

Answer Key

Testname: MATH230\_LIAL\_HW1

23)

