Section 2.2

In Exercises 16–28, identify the x and y intercepts if they exist and graph the equation.

16 $-3x = y/2$

17 $x/3 = -4$

18 $(y-4)/2 = 4x + 3$

19 $3x - 6y = 0$

20 $4x - 2y = -10$

21 $2x - 3y + 20 = -5x + 2y - 8$

22 $5 - 3x + 6y = -x + 5 - 2y$

23 $5y = 2y + 24$

24 $-6x + 24 = -12 + 3x$

25 $-2x + 3y = -36$

26 $(x - 6y)/2 = -3y + 10$

27 $x + y - 20 = 0$

28 $(2x - 4y)/2 = 10 + (-x + 3y)/3$

In Exercises 29–40, compute the slope of the line segment connecting the two points. Interpret the meaning of the slope.

29 $(5, 2)$ and $(-10, 5)$

30 $(-3, 8)$ and $(1, -14)$

31 $(-b, a)$ and $(-b, 3a)$

32 $(2a, 3b)$ and $(-3a, 3b)$

33 $(4, -5)$ and $(-2, 25)$

34 $(-2, 40)$ and $(3, 75)$

35 $(4.38, 2.54)$ and $(-1.24, 6.32)$

36 $(-15.2, 4.5)$ and $(8.62, -1.6)$

37 (m, n) and $(-m, -n)$

38 $(-2a, 4b)$ and $(4b, -2a)$