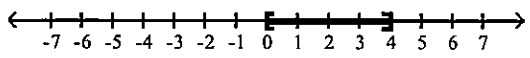
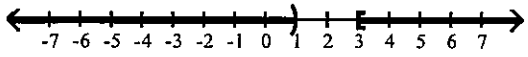
1) [0, 4]



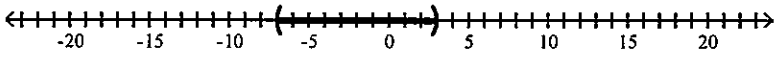
2) $(-\infty, 1) \cup [3, \infty)$



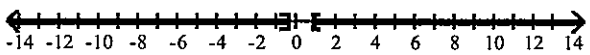
3) $\left\{\frac{1}{4}, -\frac{11}{4}\right\}$

4) Ø

5) (-7, 3)



6) $\left(-\infty, -\frac{3}{8}\right] \cup \left[\frac{7}{8}, \infty\right)$



7) [0,14]

8) $60

9) $t = \frac{4}{c-3}$ or $t = \frac{-4}{-c+3}$

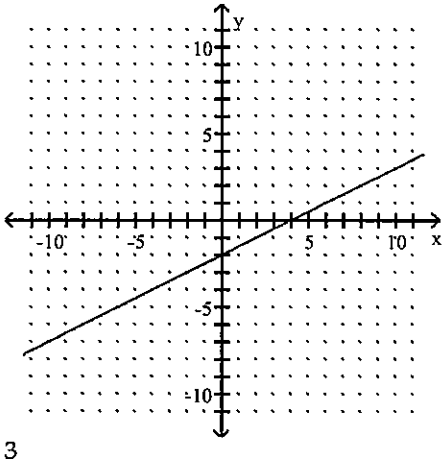
10) $h = \frac{S - 2\pi r^2}{2\pi r}$

11) $\left\{-\frac{60}{43}\right\}$

12) Ø

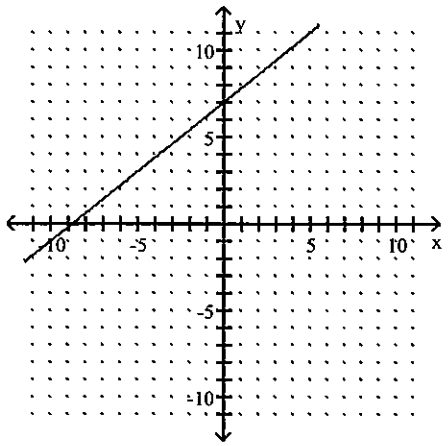
13) {-10, 9}

14) (4, 0); (0, -2)



15) 3

16) Slope: $\frac{4}{5}$

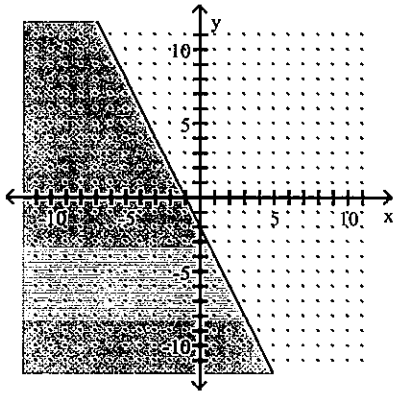


17) $y = -\frac{4}{3}x + 8$

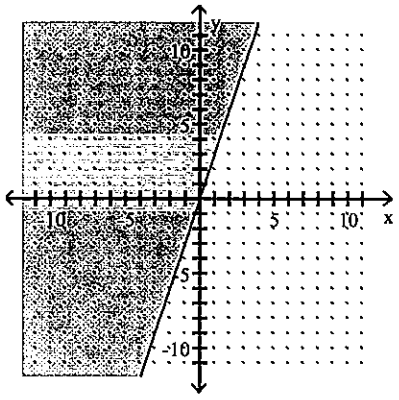
18) $2x + 5y = 29$

19) $11x + 13y = 38$

20)



21)



22) B

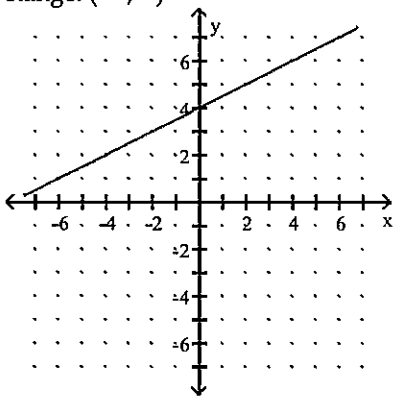
23) A

24) 10

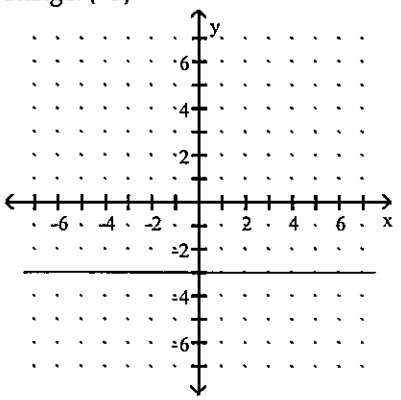
25) $-8x^2 + 12x - 9$

26) $9x^3 + 25x^2 + 57x - 14$

27) Domain: $(-\infty, \infty)$
Range: $(-\infty, \infty)$



28) Domain: $(-\infty, \infty)$
Range: $\{-3\}$



29) $\{(10, 4)\}$

30) $\{(3, 8)\}$

31) $\{(-7, 0)\}$

32) 75 L

33) 19 pounds

34) 3 hours

35) $12x^4y^3(2x^5y^4 - 3y^2 + 3x^2)$

36) $(2z - 3)(3z + 2)$

37) $5(2x + 1)(x - 4)$

38) $(11k + 13m)(11k - 13m)$

39) $(x + 4y)^2$

40) $(10p - 1)(100p^2 + 10p + 1)$

41) $(t + 6)(t^2 - 6t + 36)$

42) $\{-9, 3\}$

43) $\{3, 6\}$

44) $\left\{\frac{14}{15}, 0\right\}$

45) $\frac{y + 7}{y + 9}$

46) $\frac{k}{k-4}$

47) $\frac{7p}{4}$

48) $3a(a+9)$

49) $\frac{13r-28}{r(r-7)}$

50) $\frac{3(y-7)}{2y}$

51) $\frac{12}{x}$

52) $14x\sqrt{3}$

53) $70-30\sqrt{5}$

54) $x\sqrt{15}-3\sqrt{3x}-4\sqrt{5x}+12$

55) $\left\{\frac{107}{8}\right\}$

56) $\left\{\frac{9}{7}\right\}$

57) $-6i\sqrt{6}$

58) $\{-28,-12\}$

59) $81;(x-9)^2$

60) $\{-4+\sqrt{21},-4-\sqrt{21}\}$

61) $\left\{\frac{-1+i\sqrt{23}}{2},\frac{-1-i\sqrt{23}}{2}\right\}$

62) $\left\{-1,\frac{5}{2}\right\}$