MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Determine whether the ordered pair is a solution for the equation.

1) $(3.7, 1.7)$; $y = 5x - 16.8$ 1) _____
    A) Yes   B) No

2) $(3, 3)$; $x + y = 6$ 2) _____
    A) Yes   B) No

3) $\left(\dfrac{2}{3}, 6\dfrac{2}{3}\right)$; $y = \dfrac{1}{2}x + \dfrac{11}{3}$ 3) _____
    A) No   B) Yes

4) $(3, 2)$; $4x - 3y = 18$ 4) _____
    A) No   B) Yes

5) $(5, 3)$; $5x + 4y = 37$ 5) _____
    A) No   B) Yes

Choose the answer that lists three solutions for the equation.

6) $y = -2x + 4$ 6) _____
    A) $(0, 4), (7, -10), (8, -12)$ B) $(6, -8), (7, -8), (8, -8)$
    C) $(6, -16), (7, -18), (8, -20)$ D) $(0, 4), (6, -20), (8, -24)$

7) $y = 9x + 7$ 7) _____
    A) $(3, 34), (4, 43), (5, 52)$ B) $(3, 20), (4, 29), (5, 38)$
    C) $(3, 20), (4, 11), (5, 2)$ D) $(3, 34), (4, 34), (5, 34)$

8) $-2x + y = 7$ 8) _____
    A) $(0, 7), (1, 7), (2, 7)$ B) $(0, 7), (1, 9), (2, 11)$
    C) $(0, -7), (1, -5), (2, -3)$ D) $(0, 7), (1, 5), (2, 3)$

9) $y = 5$ 9) _____
    A) $(-7, 5), (-4, 5), (6, 0)$ B) $(-7, 5), (-4, 5), (6, 5)$
    C) $(5, -7), (5, -4), (5, 6)$ D) $(-7, 5), (5, -4), (6, 5)$

10) $y = -7x$ 10) _____
    A) $(6, -42), (7, -49), (8, -56)$ B) $(6, 0), (6, -49), (6, -56)$
   C) $(6, 0), (7, 49), (8, -49)$ D) $(6, -7), (7, -7), (8, -7)$

Graph the equation.

11) $x + y = 2$

11) _____
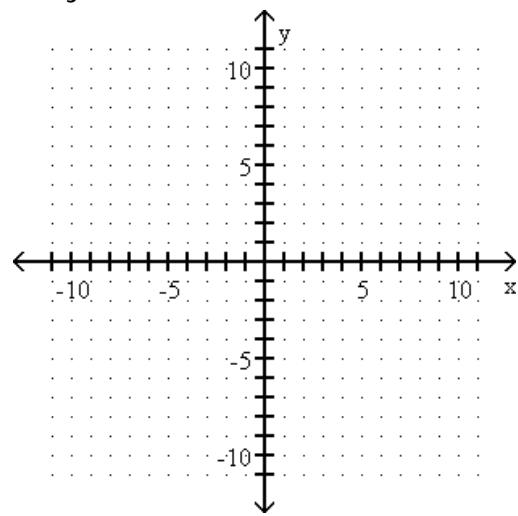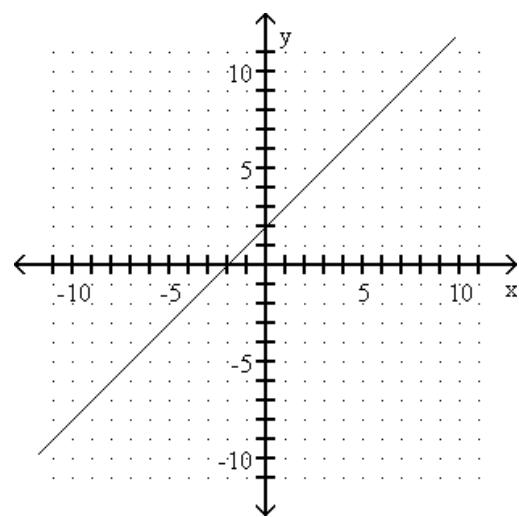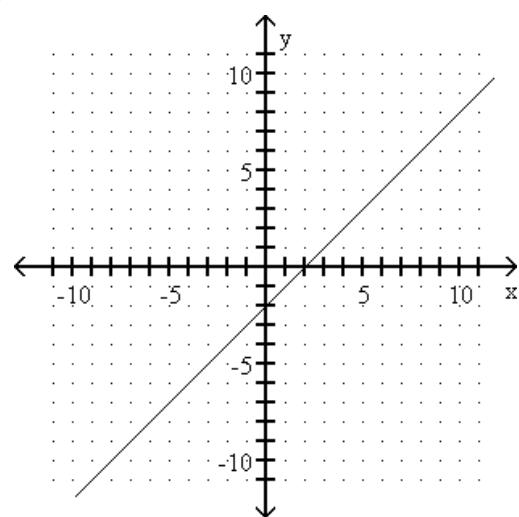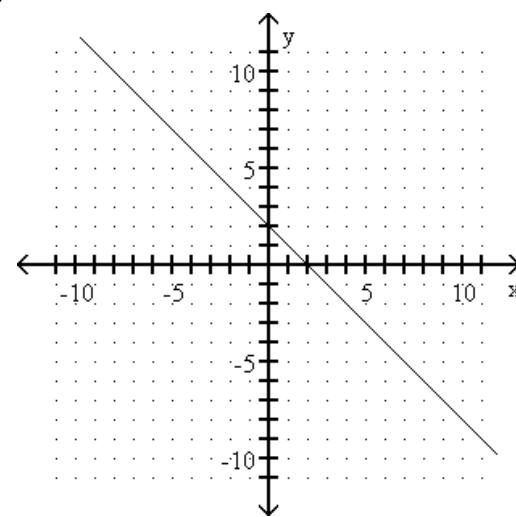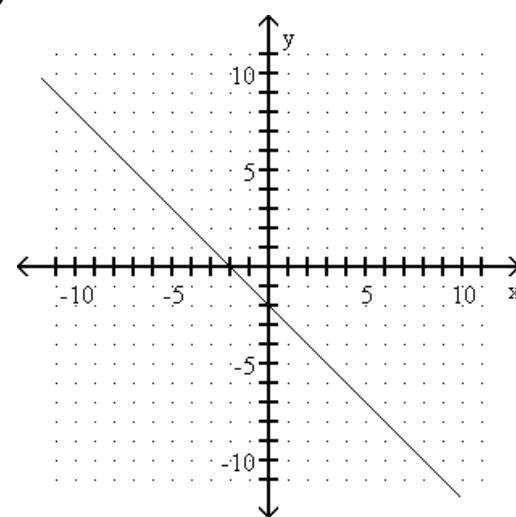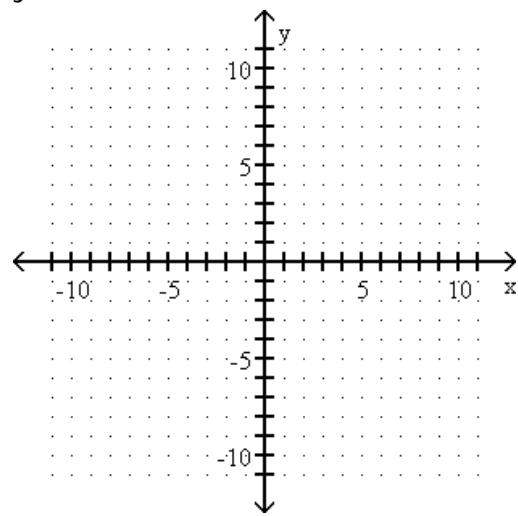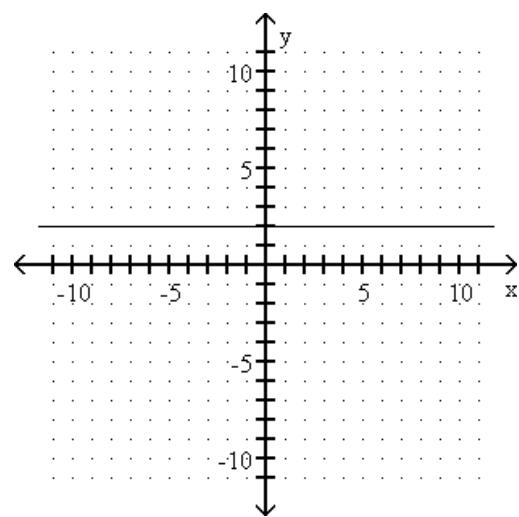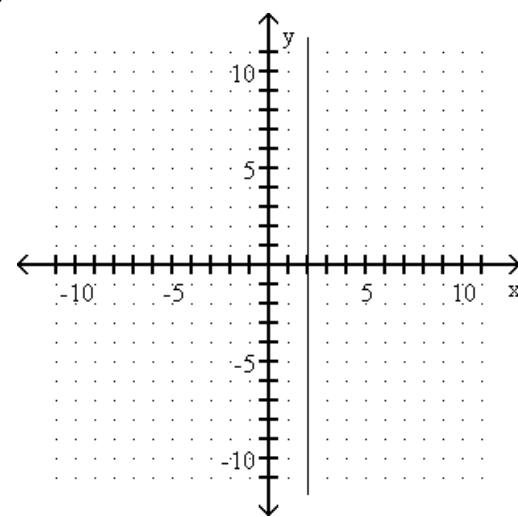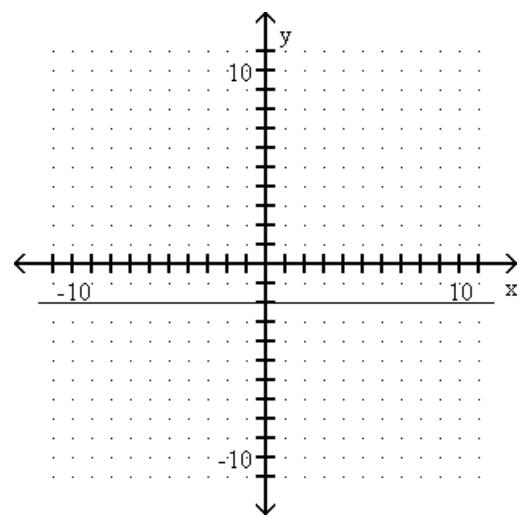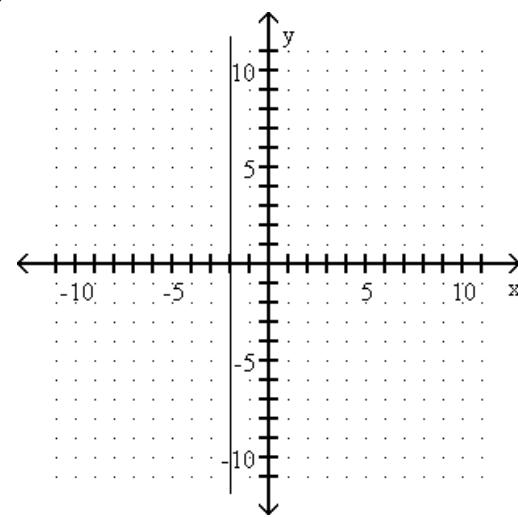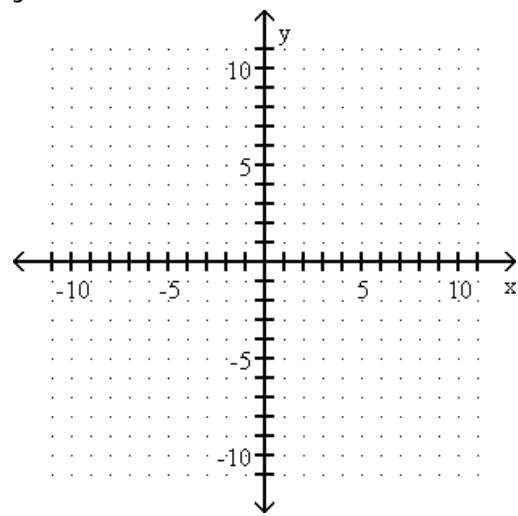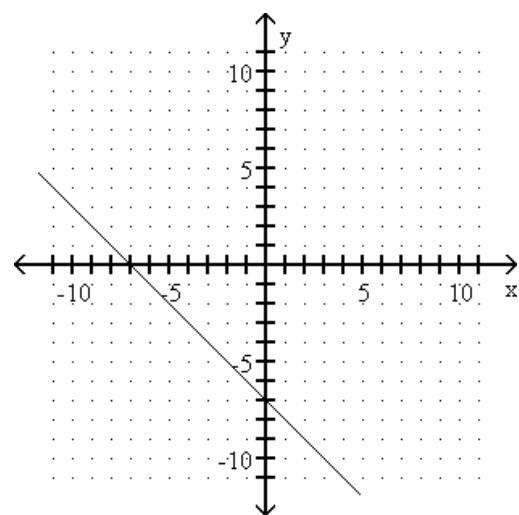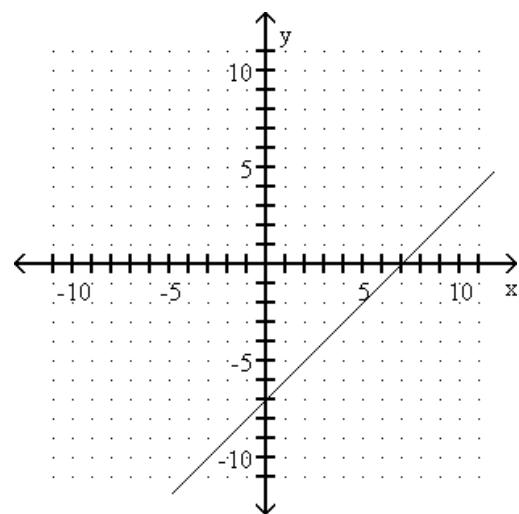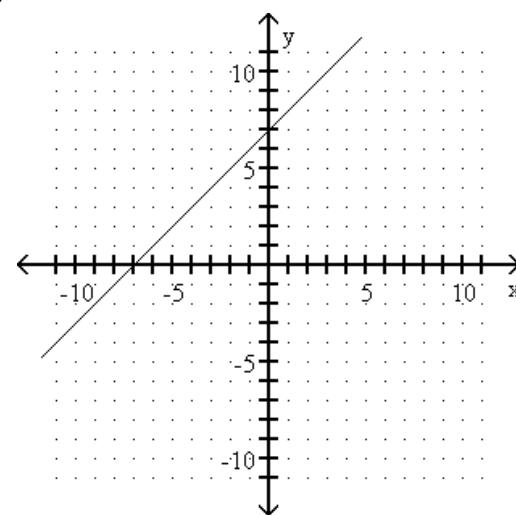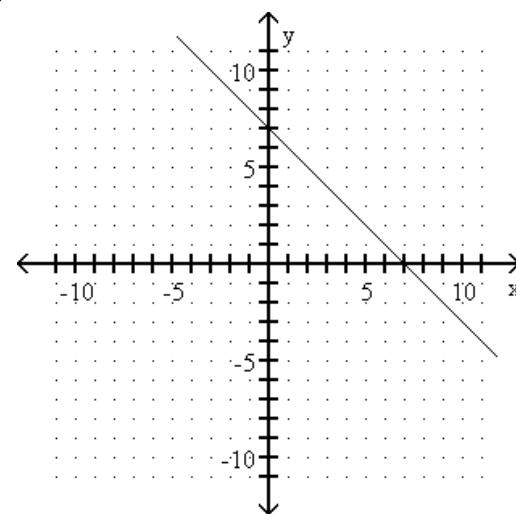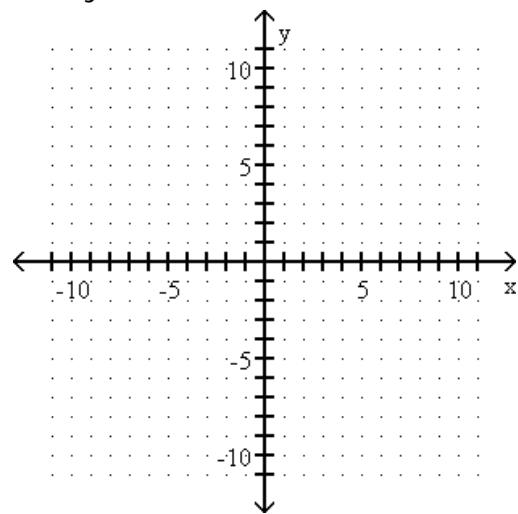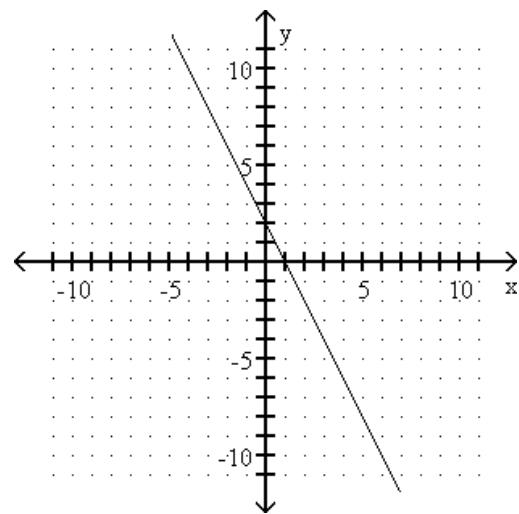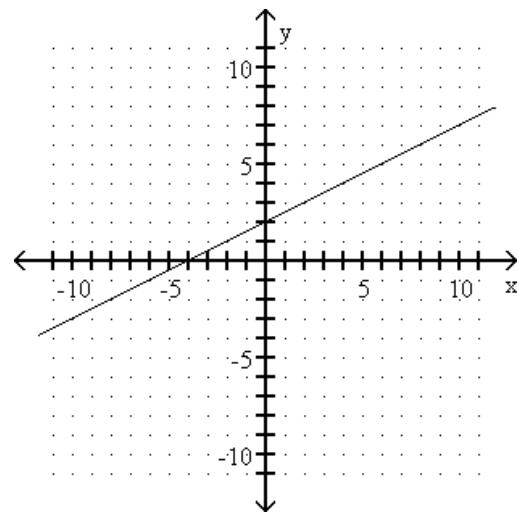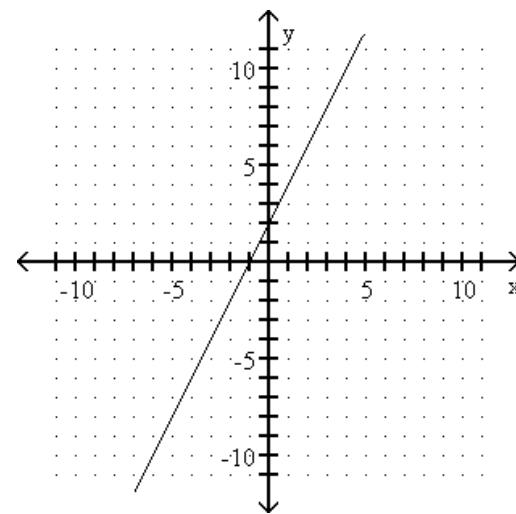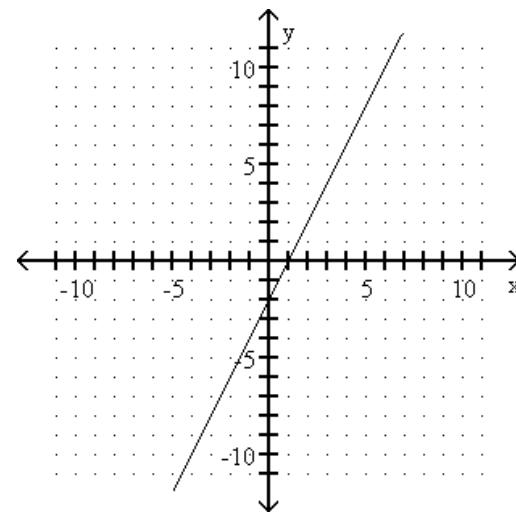
A)

B)

C)

D)

12) y = 2

A)

B)

C)

D)

13) $y = x - 7$

13) _____

A)

B)

C)

D)

14) $2x - y = -2$

14) _____

A)

B)

C)

D)

15) x = 2

A)

B)

C)

D)

16) $y = -\dfrac{1}{4}x$

16) _____

A)

B)

C)

D)

17) $y = \dfrac{1}{3}x$

17) _____

A)

B)

C)

D)

18) $y = 2x - 6$



18) _____

A)

B)

C)

D)

19) $-2.4x + 1.3y = 8$ 19) _____

A)

B)

C)
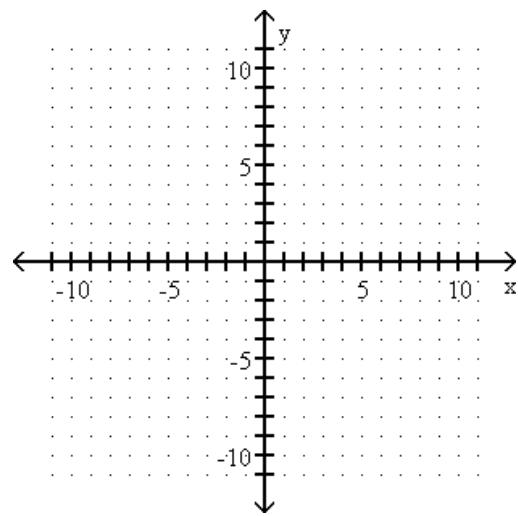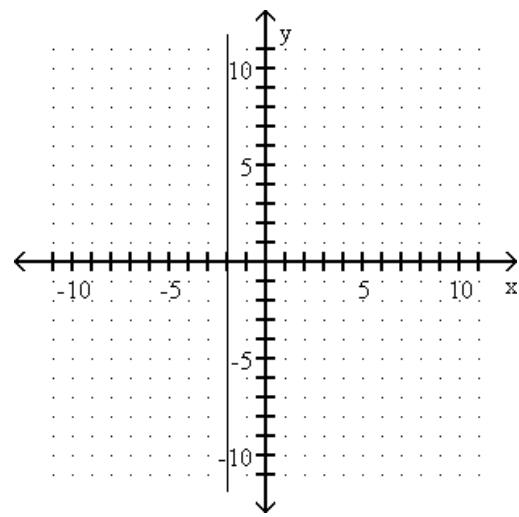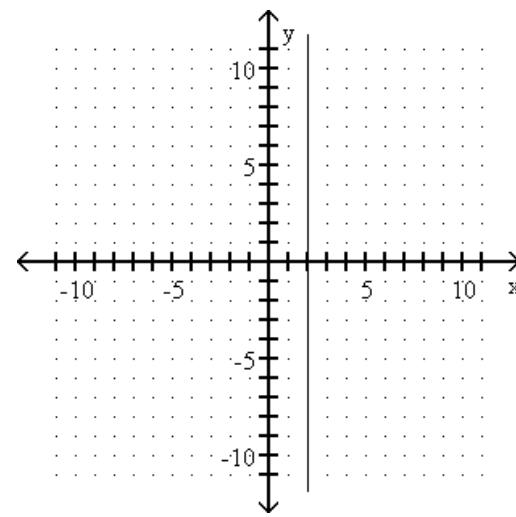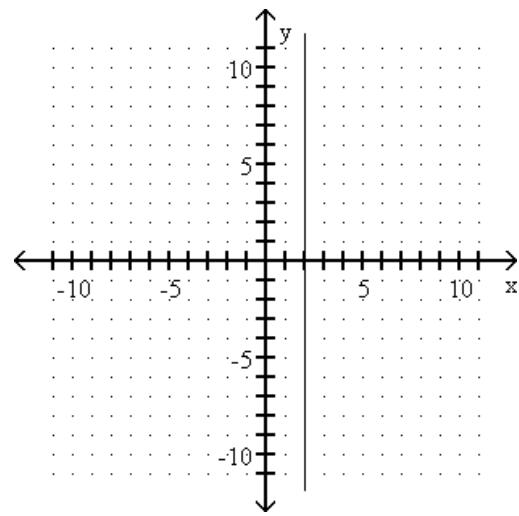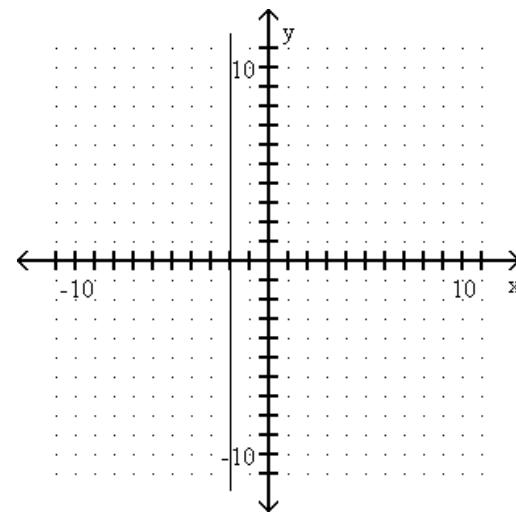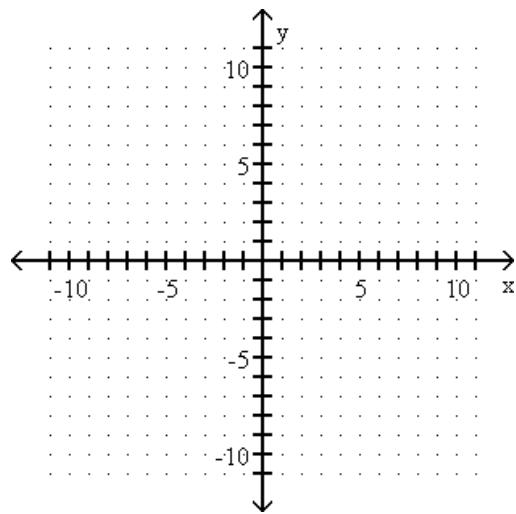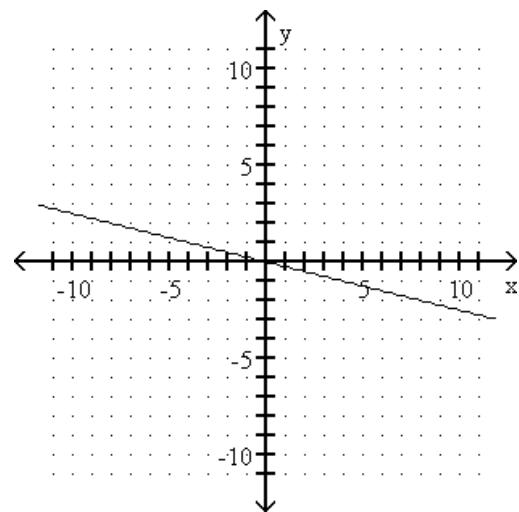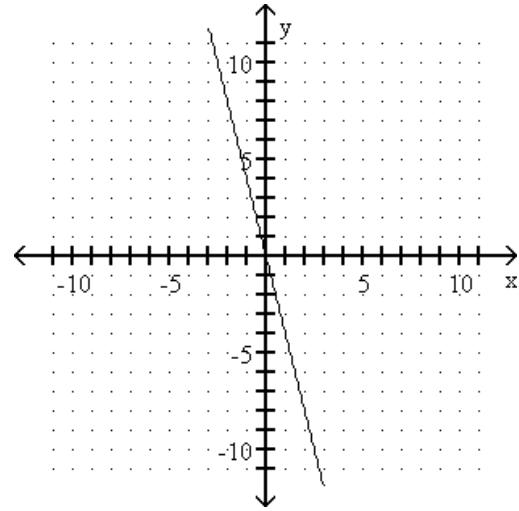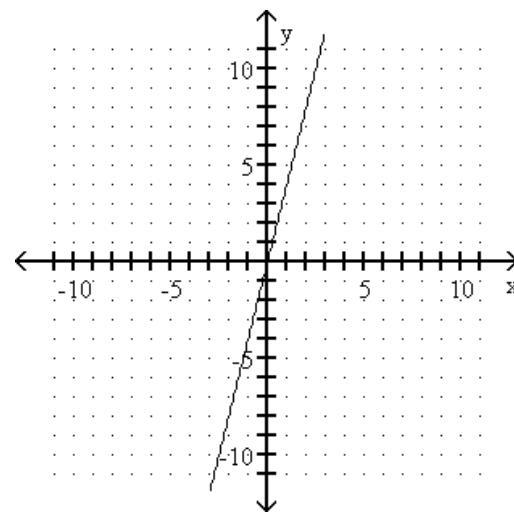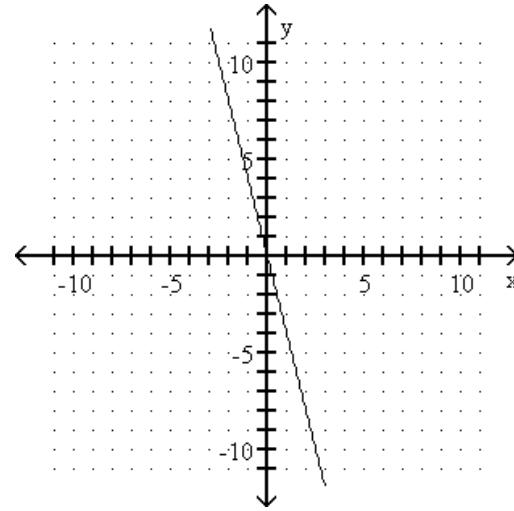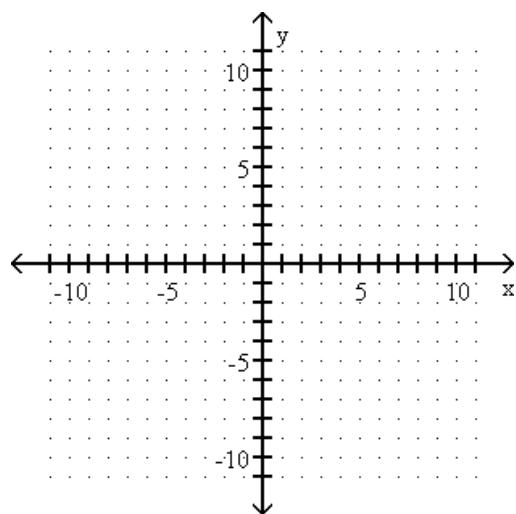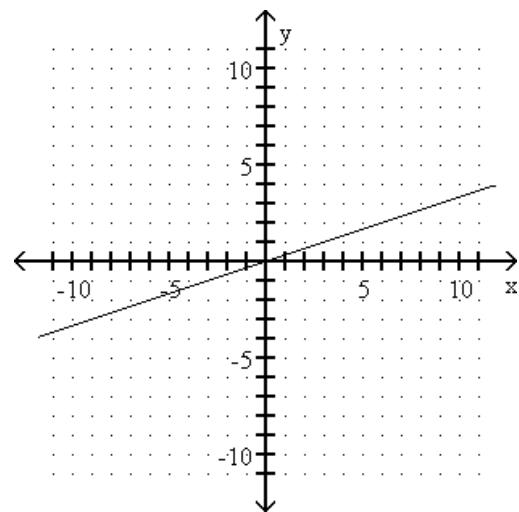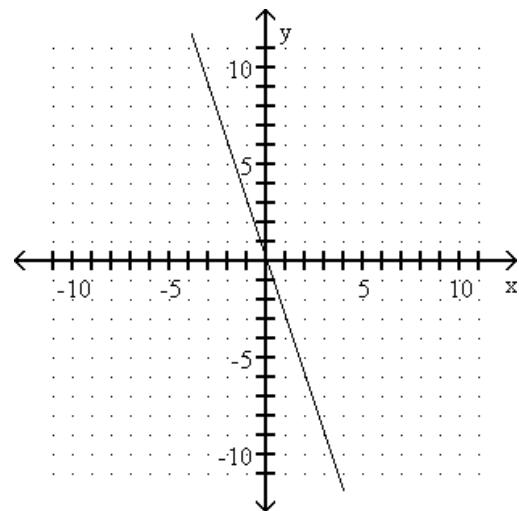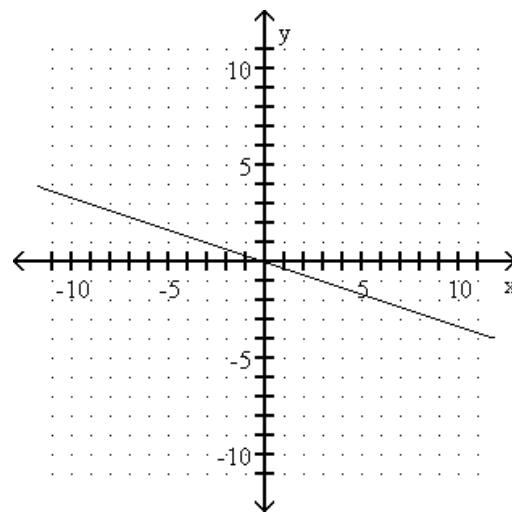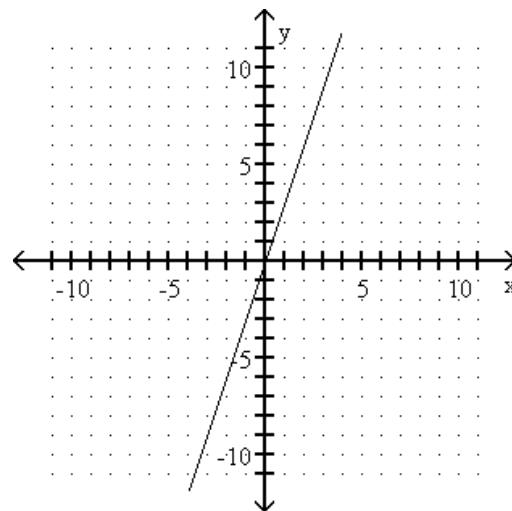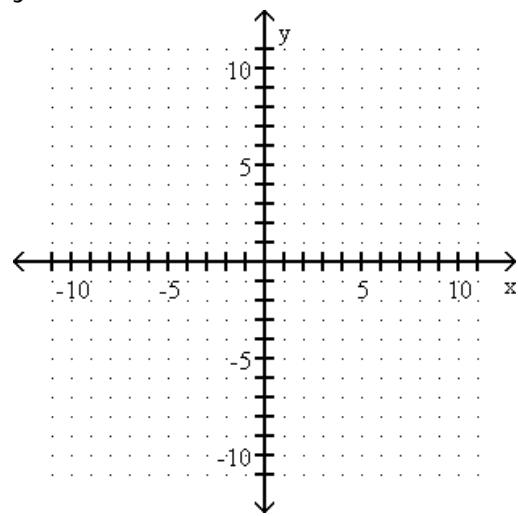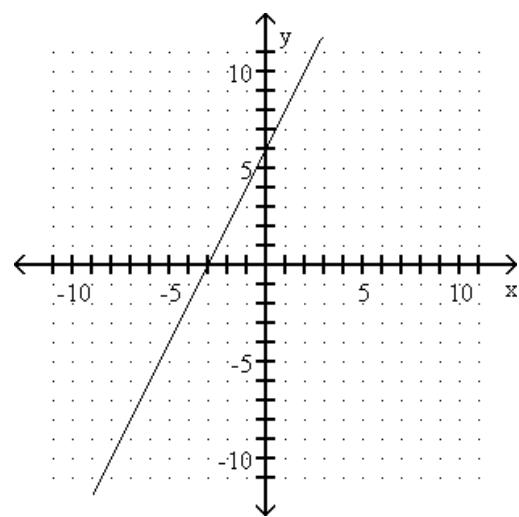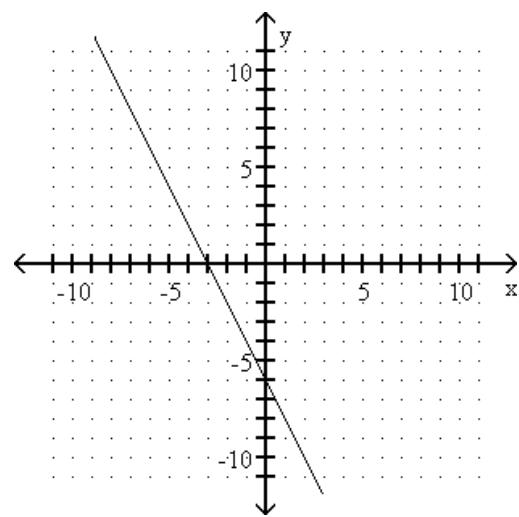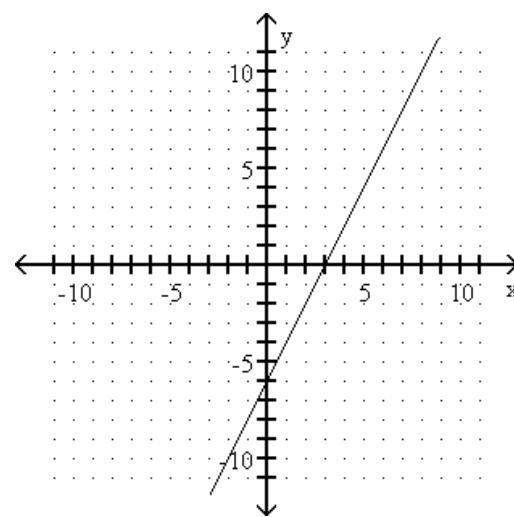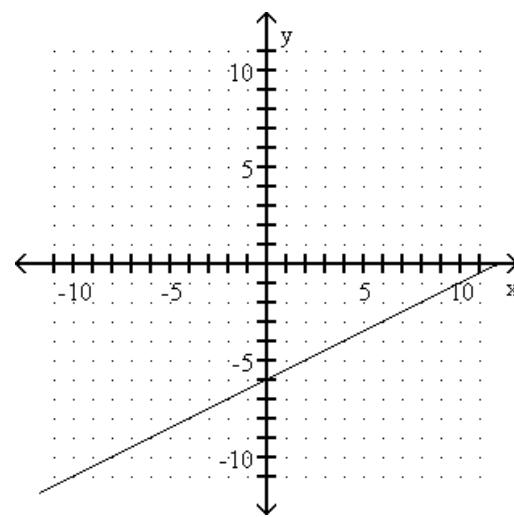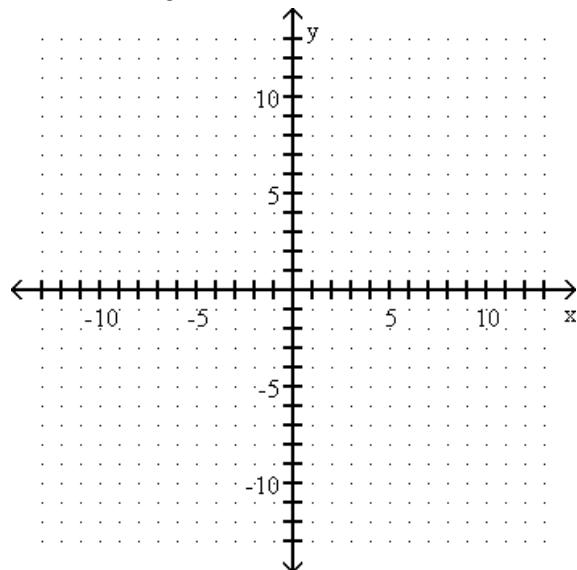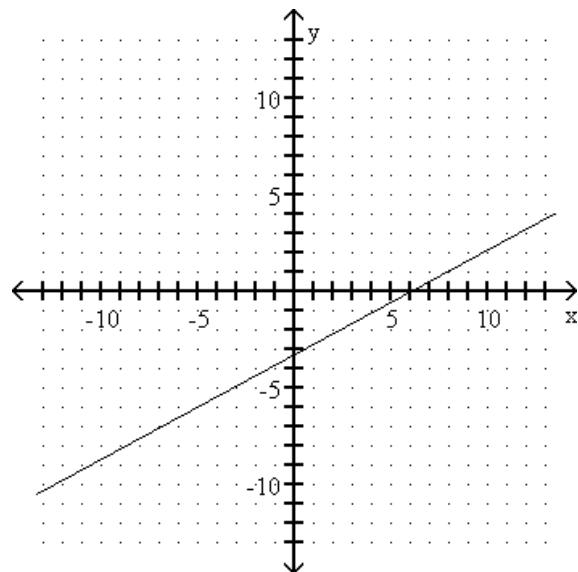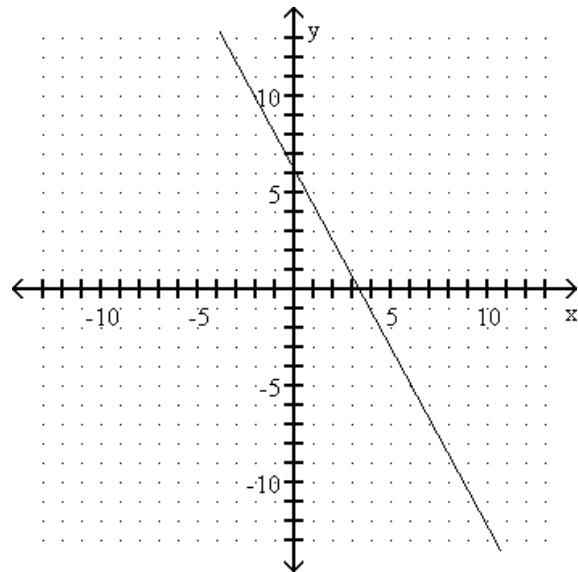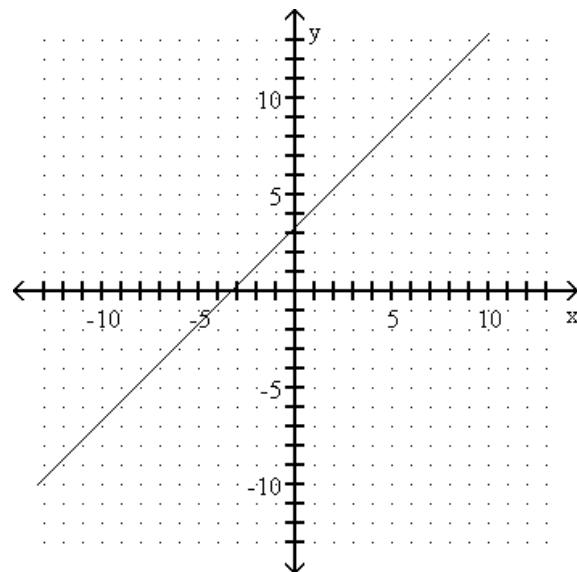
D)
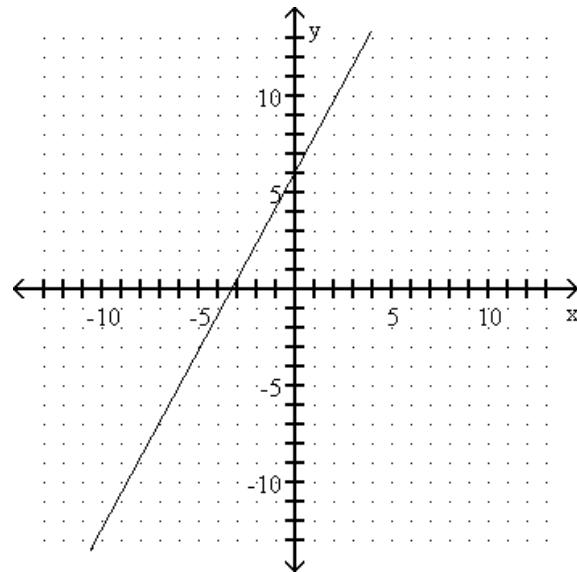
Solve.

20) During the month of January 1997, the depth, d, of snow in inches at the base of one ski resort could be approximated by $d = -2t + 67$, where t is the number of days since December 31st. Graph the equation and use the graph to estimate the depth of snow on January 25th.
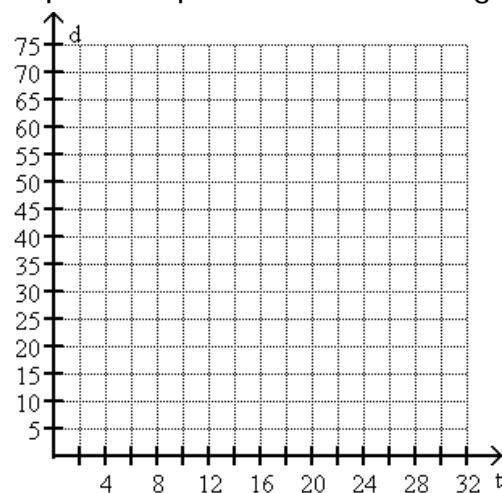
A) 25 inches
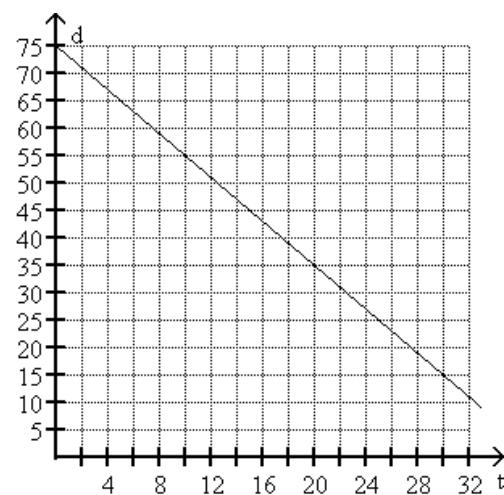
B) 22 inches
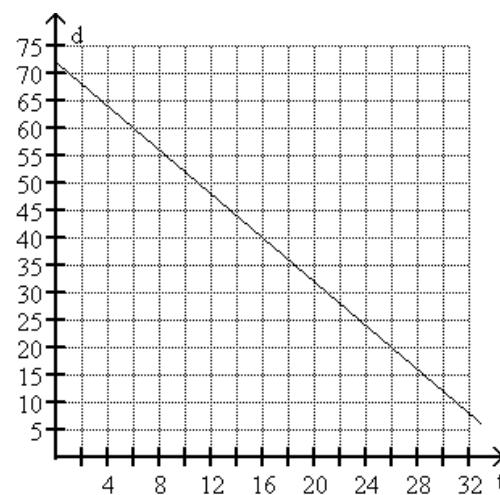
C) 42 inches
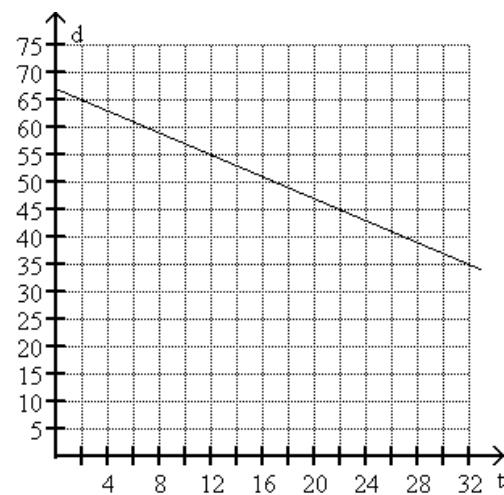
D) 17 inches
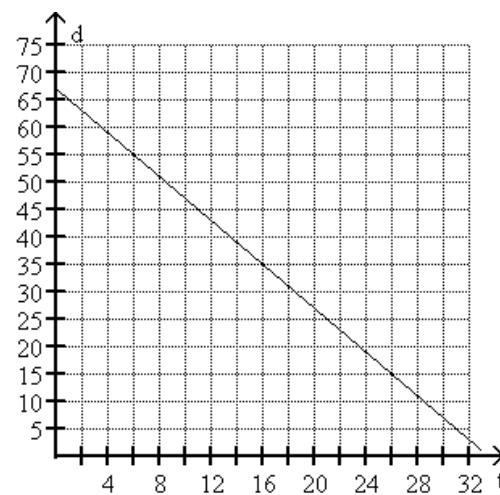
21) The cost, T, in hundreds of dollars, of tuition at one community college is given by $T = 3 + 1.25c$, where c is the number of credits for which a student registers. Graph the equation, and find the cost if a student registers for 14 credits.

21) _____
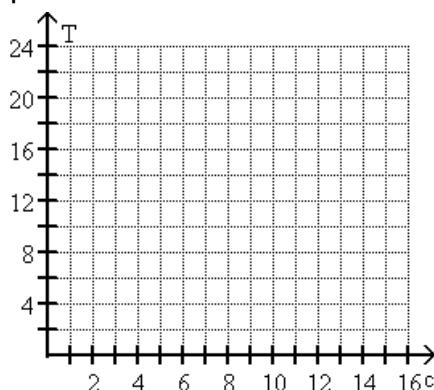
A) $2050
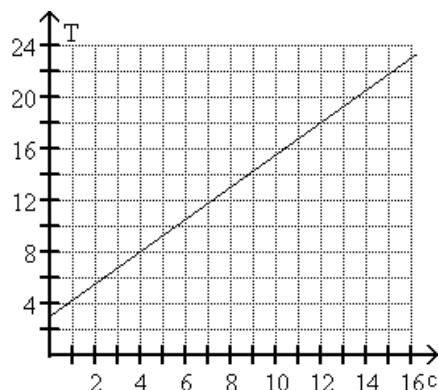
B) About $1640
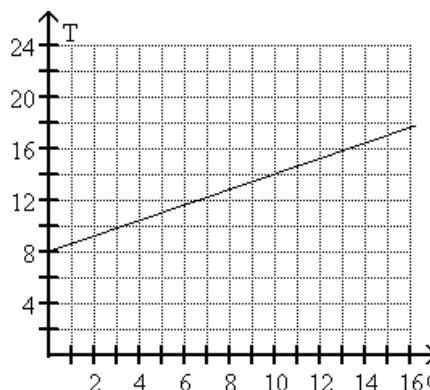
C) About $2040
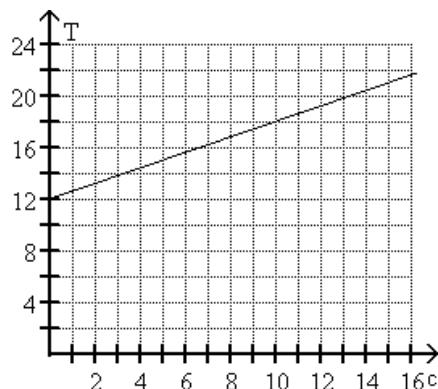
D) About $840
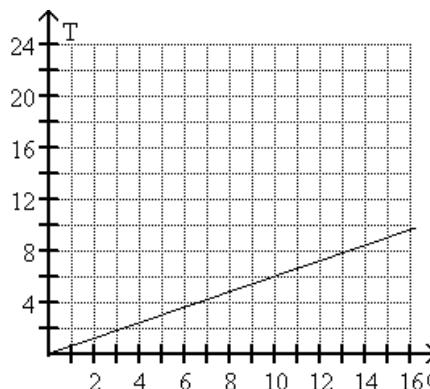
22) Alison sets aside $40 each month to spend on books and CDs. If she spends c dollars on CDs in a given month, then she may spend b dollars on books, where $c + b = 40$. Find the amount Alison may spend on books in March if she spends $31 on CDs.

22) _____

   A) $20   B) $9   C) $16   D) $71

23) The value, v, in hundreds of dollars, of Juan's computer is approximated by $v = -0.50t + 8$ where t is the number of years since he first bought the computer. Find the value of the computer 6 years after it was purchased.

23) _____

   A) $200   B) $680   C) $1100   D) $500

1) A
2) A
3) A
4) A
5) B
6) A
7) A
8) B
9) B
10) A
11) B
12) A
13) C
14) B
15) C
16) A
17) A
18) B
19) D
20) D
21) A
22) B
23) D