10B

1) on the graph

2) slope = $\frac{-2}{8} = -\frac{1}{4}$

3) y-intercept = 2

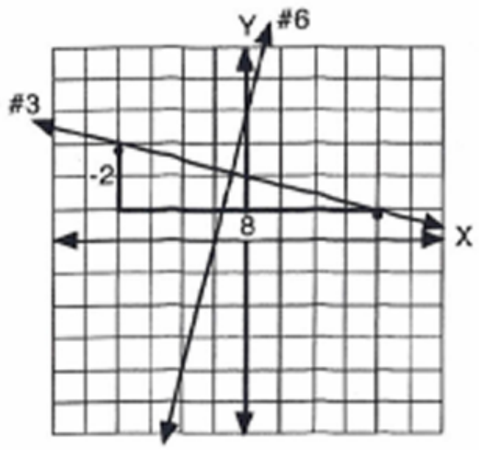
4) Y = -1/4X + 2

5) A (Y = 4X - 5)

6) on the graph

7) Y = 4X + 4

8) 4X - Y = -4



9) on the graph

10) slope = $\frac{4}{4} = 1$

11) y-intercept = 1

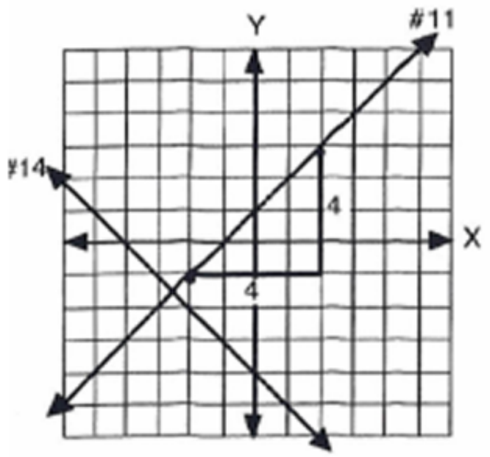
12) Y = X + 1,

13) A

14) on the graph

15) Y = -X - 4

16) X + Y = -4



10C

1) on the graph

2) slope = $\frac{2}{6} = \frac{1}{3}$

3) y-intercept = -4

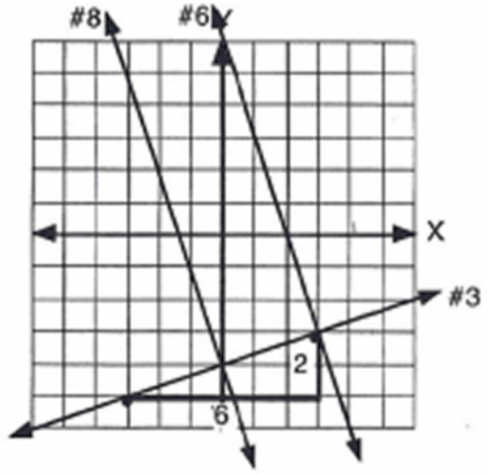
4) Y = 1/3X - 4, X - 3Y = 12

5) B, C (Y = -3X - 1)

6) on the graph

7) Y = -3X + 6, 3X + Y = 6

8) on the graph



9) Y = -3X - 4, 3X + Y = -4

10) slopes are the same, so lines are parallel

11) 6X - X + 3 = 4X + 7
5X + 3 = 4X + 7
X = 4

12) -2X - X + 12 = X - 12
-3X - X = -12 - 12
-4X = -24, X = 6

13) |-(3 + 7)| - 4^2 + $(-4)^2$ = 2R
10 - 16 + 16 = 2R
10 = 2R, 5 = R

14) $^{9}\cancel{(18)}\frac{-7}{\cancel{2}}$ Y + $^{2}\cancel{(18)}\frac{2}{\cancel{9}} = {}^{6}\cancel{(18)}\frac{-4}{\cancel{3}}$
-63Y + 4 = -24, Y = 4/9

15) 100% - 60% = 40%

16) 40% of $12,900 = .40 x 12,900 = $5,160

17) 15.3% = .153, .153 x 5,160 = $789.48

18) .25 ÷ 2 = .125 or 12 1/2 ¢

19) 8 x .125 = $1.00 (or 4 x .25 = $1.00)

20) T = 5W + 3, T = total and W = weeks
(different letters may be used)

10D

1) on the graph

2) slope = $\frac{-6}{3} = -2$

3) y-intercept = 1

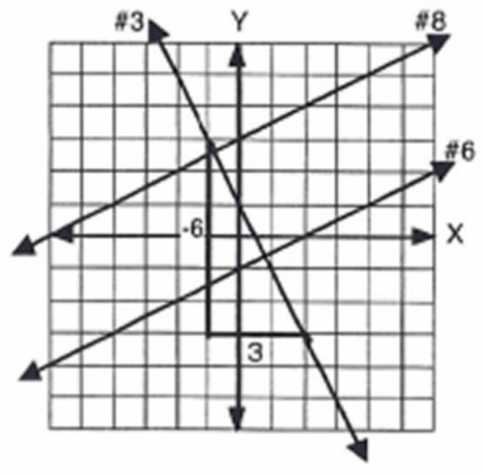
4) Y = -2X + 1, 2X + Y = 1

5) A

6) on the graph

7) Y = 1/2X - 1, X - 2Y = 2

8) on the graph



9) Y = 1/2X + 3, X - 2Y = -6

10) slopes are the same, so lines are parallel

11) 2X + 2 - X + 2X = 3X - 3 + 10 - X
3X + 2 = 2X + 7
X + 2 = 7, X = 5

12) 3Y - 1 + 2Y - 1 - 4Y = 2Y + 3 + Y + 1
Y - 2 = 3Y + 4
-6 = 2Y, -3 = Y

13) -(6 + 7)^2 + (10 + 5)^2 = 5M
-169 + 225 = 5M, 56 = 5M, 11 1/5 = M

14) $^{20}\cancel{(60)}\frac{-5}{\cancel{3}} = {}^{15}\cancel{(60)}\frac{-9}{\cancel{4}} + {}^{12}\cancel{(60)}\frac{6}{\cancel{5}}$ A
-100 = -135 + 72A, 35 = 72A, 35/72 = A

15) 100% - 55% = 45%

16) 45% of $9,645 = .45 x 9,645 = $4,340.25

17) 15.3% = .153, .153 x 4,340.25 = $664.06
(rounded)

18) 2.50 ÷ .25 = 10, 10 x 2 = 20 bits

19) 100 ÷ 2 = 50, 50 x .25 = $12.50

20) L = W + 5, L = length and W = weeks
(different letters may be used)