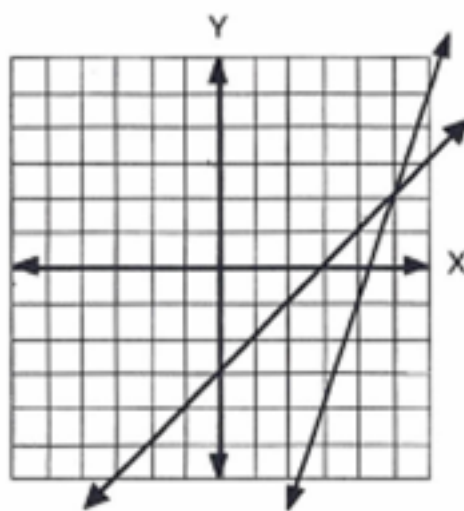


15B

1) (5, 2)

$$\begin{array}{r} X - Y = 3 \\ -(3X - Y = 13) \\ \hline -2X = -10 \\ X = 5 \end{array}$$

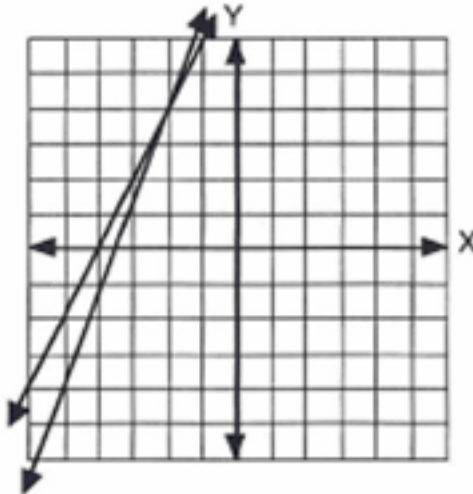
3)  $5 - Y = 3$   
 $Y = 2$



4) (-2, 4)

$$\begin{array}{r} 3X - Y = -10 \\ -(2X - Y = -8) \\ \hline X = -2 \end{array}$$

$$\begin{array}{r} 2(-2) - Y = -8 \\ -4 - Y = -8 \\ -Y = -4 \\ Y = 4 \end{array}$$

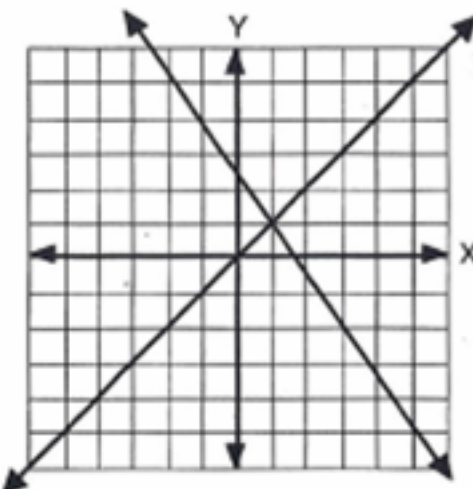


7) (1, 1)

$$\begin{array}{r} 3X + 2Y = 5 \\ +(2X - 2Y = 0) \\ \hline 5X = 5 \\ X = 1 \end{array}$$

9)  $Y = X$   
 $Y = 1$

$$\begin{array}{r} X + Y = -3 \\ +(3X - Y = -1) \\ \hline 4X = -4 \\ X = -1 \end{array} \quad \begin{array}{r} -1 + Y = -3 \\ Y = -2 \end{array} \quad (-1, -2)$$



15D

1) (3, 2)

$$\begin{array}{r} 3Y + 2X = 12 \\ +8Y - 2X = 10 \\ \hline 11Y = 22 \\ Y = 2 \end{array}$$

3)  $3(2) + 2X = 12$   
 $X = 3$

4) (2, 2)

$$\begin{array}{r} X + Y = 4 \\ -2X - Y = -6 \\ \hline -X = -2 \\ X = 2 \end{array}$$

6)  $2 + Y = 4$   
 $Y = 2$

7)  $Y \geq 4/5X + 2$

8) on the graph

9) no (from graph)

10)  $m = -2$

$$\begin{array}{r} 1 = -2(-1) + b \\ 1 = 2 + b \\ b = -1 \end{array}$$

12)  $Y = -2X - 1$   
 $2X + Y = -1$

13) 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225  
 $1^2, 2^2, 3^2, 4^2, 5^2, 6^2, 7^2, 8^2, 9^2, 10^2, 11^2, 12^2, 13^2, 14^2, 15^2$

14)  $3N - 4N + 8 = 3N$

15)  $4N = 8$   
 $N = 2$

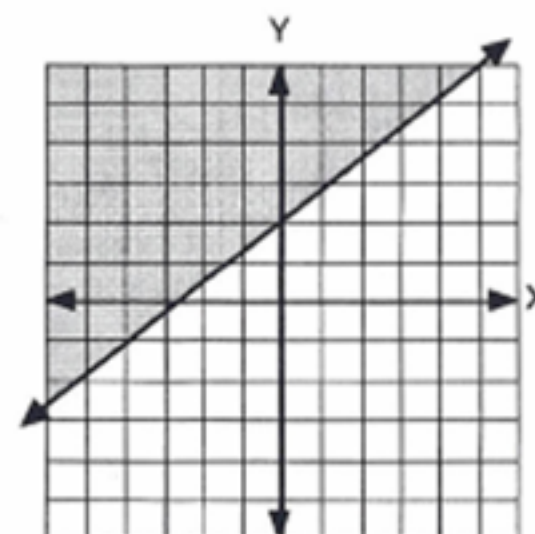
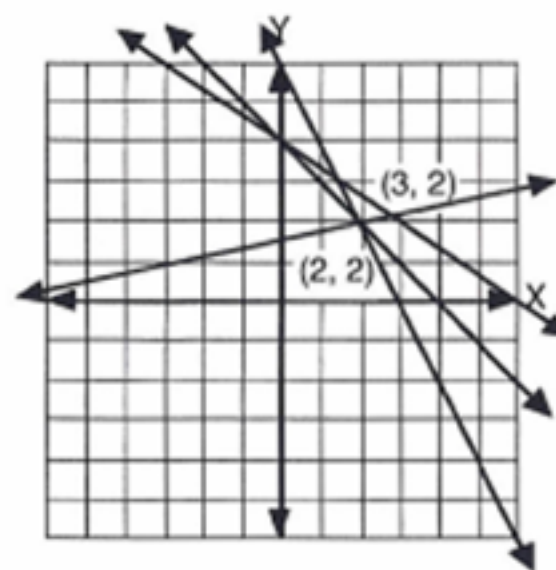
16)  $3(2)^2 - 2 \div |4 - 3| = 3(4) - 2 \div 1 = 12 - 2 = 10$

17)  $48/100 \times 32 = 15 \frac{36}{100} = 15 \frac{9}{25}$

18)  $Wf = 5/75 = 1/15$

19)  $21.8 \div .4 = 54.5$

20)  $2/7 \div 1/2 = 2/7 \times 2/1 = 4/7$



15C

1) (-2, 2)

$$\begin{array}{r} 2Y + 3X = -2 \\ +6Y - 3X = 18 \\ \hline 8Y = 16 \\ Y = 2 \end{array}$$

3)  $2(2) - X = 6$   
 $4 - X = 6$   
 $X = -2$

4) (1, -1)

$$\begin{array}{r} Y + 3X = 2 \\ -Y + X = 2 \\ \hline 4X = 4 \\ X = 1 \end{array}$$

6)  $Y - 1 = -2$   
 $Y = -1$

7)  $Y < -3/2X - 3$

8) on the graph

9) no (see graph)

10)  $m = 1/2$

$$\begin{array}{r} 1 = 1/2(-1) + b \\ 1 = -1/2 + b \\ b = 3/2 \end{array}$$

12)  $Y = 1/2X + 3/2$   
 $X - 2Y = -3$

13) 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225  
 $1^2, 2^2, 3^2, 4^2, 5^2, 6^2, 7^2, 8^2, 9^2, 10^2, 11^2, 12^2, 13^2, 14^2, 15^2$

14)  $6N - 4 = \frac{10N}{2}$

15)  $6N - 4 = 5N$   
 $N = 4$

16)  $4^2 - 2(4) + |3 - 4| = 16 - 8 + |1| = 8 + 1 = 9$

17)  $.14 \times 25 = 3.5$

18)  $Wf = 8/16 = 1/2$

19) 1.308

20)  $3/4 \div 5/6 = 3/4 \times 6/5 = 18/20 = 9/10$

