

## ANSWERS TO ALGEBRA 1-a FINAL

1)  $x = 4$        $y = 3$

2)  $x = 2$        $y = 5$

3)  $X = 1$   
 $Y = 2$

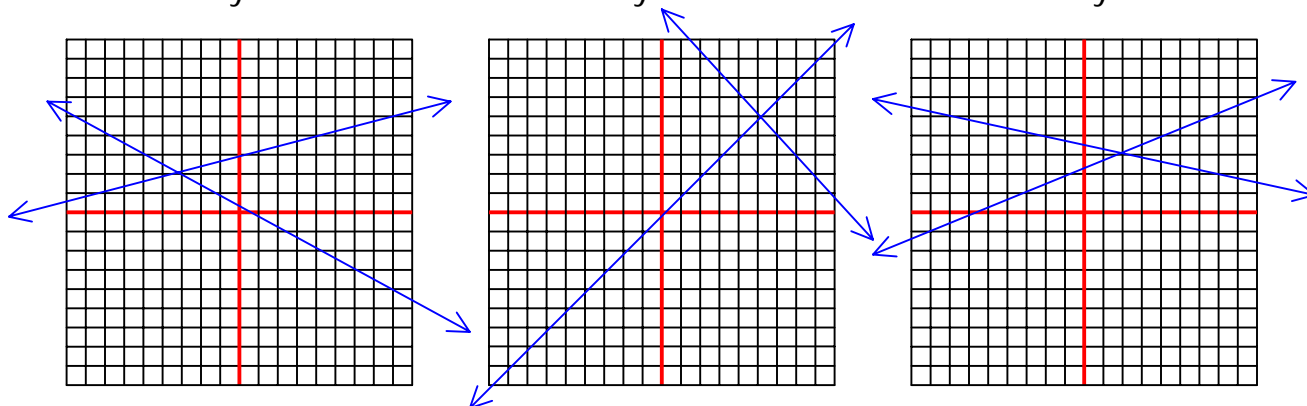
4)  $X = 5$   
 $Y = 3$

5)  $X = -4$   
 $Y = -1$

6)  $2x + 4y = 2$   
 $x - 4y = -11$

7)  $4x - 3y = 5$   
 $3x + 3y = 30$

8)  $2x - 5y = -11$   
 $x + 5y = 17$



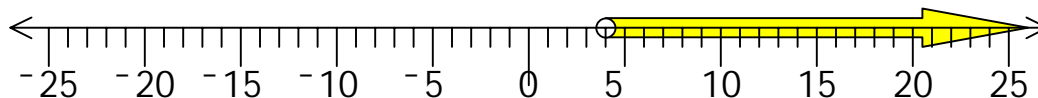
9) The plane is flying 225 mph  
The wind is blowing 75 mph

10) The original number is 92

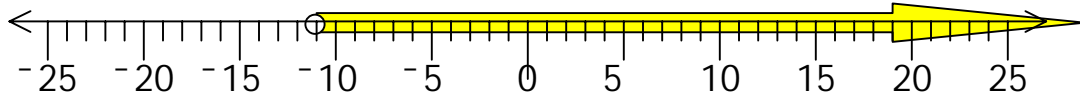
11) 39 quarts of 47% alcohol  
13 quarts of 27% alcohol

12)  $b \geq -24$       13)  $x > -3$

14)  $\frac{x}{6} - \frac{x}{4} < \frac{x - 6}{6}$



15)  $18x - 4x + 17 > 4x - (5 - 8x)$



16)  $x = -1$   
 $y = 1/2$   
 $z = 5/4$  or  $11/4$

17)  $x = 1/2$   
 $y = 2$   
 $z = -3/2$

18) 230 adult  
 80 student1

19)  $y \leq x - 7$   
 $x + y \leq -4$

20)  $x \geq -2$   
 $y \leq -3$

21)  $y \geq -2x + 2$   
 $y > -3$

