

# Multiple Choice - Section 1

1.  $4x + 2y = 10$   
 $2y = -4x + 10$   
 $y = -2x + 5$

2.  $2x + 3y + 6 = 0$   
 $3y = -2x - 6$   
 $y = -\frac{2}{3}x - 2$

3.  $2x + 5y = 10$   
 $5y = -2x + 10$   
 $y = -\frac{2}{5}x + 2$   
 $m = -\frac{2}{5}$   $b = 2$

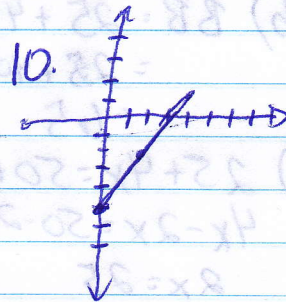
4.  $2x - y + 3 = 0$   
 $-y = -2x - 3$   
 $y = 2x + 3$   
 $m = 2$   $b = 3$

5.  $6x + 3y = 9$   
 $3y = -6x + 9$   
 $y = -2x + 3$   
 $m = -2$

6. C 7. B + D

8.  $2x - 4y + 8 = 0$   
 $4y = 2x + 8$   
 $y = \frac{1}{2}x + 2$   
 $b = 2$

9.  $3x + y - 4 = 0$   
 $y = -3x + 4$   
 $0 = -3x + 4$   
 $3x = 4$   
 $x = \frac{4}{3}$



11.  $y = -3x + 4$

12.  $y = 2(3) + 1$   
 $= 6 + 1$   
 $y = 7$

13.  $(x_1, y_1) = (2, 4)$   $(x_2, y_2) = (8, 4)$   
 $\frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - 4}{8 - 2} = \frac{0}{6}$   
 slope is 0

14.  $(x_1, y_1) = (10, 7)$   $(x_2, y_2) = (10, 2)$   
 $\frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 7}{10 - 10} = \frac{-5}{0}$   
 slope is undefined

15.  $(x_1, y_1) = (3, 3)$   $(x_2, y_2) = (6, 3)$   
 $\frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 3}{6 - 3} = \frac{0}{3}$   
 slope is 0