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Date \_\_\_\_\_  
Geometry

## Slope-Intercept Form

Determine the slope and y intercept of the following equations

1)  $y = x - 4$   
 $m = 1$   
 $b = -4$

2)  $y = 7 - x$   
 $y = -x + 7$   
 $m = -1$   
 $b = 7$

3)  $y = 3(x - 1)$   
 $y = 3x - 3$   
 $m = 3$   
 $b = -3$

4)  $2y = 4x + 6$   
 $\frac{2y}{2} = \frac{4x + 6}{2}$   
 $y = 2x + 3$   
 $m = 2$   
 $b = 3$

5)  $y + 2 = x$   
 $y = x - 2$   
 $m = 1$   
 $b = -2$

6)  $3(x - 2) = 2y$   
 $3x - 6 = 2y$   
 $\frac{3x - 6}{2} = \frac{2y}{2}$   
 $y = \frac{3}{2}x - 3$   
 $m = \frac{3}{2}$   $b = -3$

7)  $3y + 2x = 6$   
 $-2x - 2x$   
 $3y = -2x + 6$   
 $y = -\frac{2}{3}x + 2$   
 $m = -\frac{2}{3}$   $b = 2$

8)  $2y - 5x = 6$   
 $+5x + 5x$   
 $2y = 5x + 6$   
 $y = \frac{5}{2}x + 3$   
 $m = \frac{5}{2}$   
 $b = 3$

9)  $4y + 3x = 12$   
 $-3x - 3x$   
 $4y = -3x + 12$   
 $y = -\frac{3}{4}x + 3$   
 $m = -\frac{3}{4}$   $b = 3$

10)  $3x - 2y = 12$   
 $-3x - 3x$   
 $-2y = -3x + 12$   
 $y = \frac{3}{2}x - 6$   
 $m = \frac{3}{2}$   $b = -6$

11)  $2y - 8x = -4$   
 $+8x + 8x$   
 $2y = 8x - 4$   
 $y = 4x - 2$   
 $m = 4$   $b = -2$

12)  $2y - 3x = -6$   
 $+3x + 3x$   
 $2y = 3x - 6$   
 $y = \frac{3}{2}x - 3$   
 $m = \frac{3}{2}$   
 $b = -3$

13)  $5x + 2y = 7$   
 $-5x - 5x$   
 $2y = -5x + 7$   
 $y = -\frac{5}{2}x + \frac{7}{2}$   
 $m = -\frac{5}{2}$   $b = \frac{7}{2}$

14)  $-4x + 6y = 11$   
 $+4x + 4x$   
 $6y = 4x + 11$   
 $y = \frac{2}{3}x + \frac{11}{6}$   
 $m = \frac{2}{3}$   $b = \frac{11}{6}$

15)  $12x - 5y = 12$   
 $+12x - 12x$   
 $-5y = -12x + 12$   
 $y = \frac{12}{5}x - \frac{12}{5}$   
 $m = \frac{12}{5}$   $b = -\frac{12}{5}$

