

# **Solving for y: Slope-Intercept Form**

Name: \_\_\_\_\_

8<sup>th</sup> Grade Math

1) Circle  $(y)$

2) Determine what to move

3) Move "farthest" first by doing opposite

Solve the following equations for "y" (1-step only)

1.  $2 + y = 3x$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

2.  $6 = y - 4x$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

3.  $2y = 4x$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

4.  $4x = \frac{y}{2}$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

5.  $-y = 4x - 4$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

Solve the following equations for "y" (2-steps)

6.  $10 = 2y + 3x$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

7.  $3x - 4y = 12$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

8.  $10 = \frac{y + 3x}{2}$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

9.  $\frac{y}{3} + 4 = 7x$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

10.  $6x = -y + 4$

$m = \underline{\hspace{2cm}}$      $b = \underline{\hspace{2cm}}$

Solve the following equations for "y" (1-step only)

1.  $y + 4x = -2$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$

2.  $-7 + y = 2x$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$

3.  $6x = -4y$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$

4.  $\frac{y}{5x} = 3$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$

5.  $-2 + 7x = -y$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$

Solve the following equations for "y" (2-steps)

6.  $7x + 3y = -12$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$

7.  $3x = 4 - 2y$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$

8.  $\frac{4 + y}{2x} = 8$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$

9.  $x = 7 + \frac{y}{2}$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$

10.  $-y - 14 = -6$

$m = \underline{\hspace{2cm}}$     $b = \underline{\hspace{2cm}}$