# Practice 4.4 (Solving for Y) ANSWERS

**Solve each equation for y.**

1) $-3 = y + x$

$-x \quad -x$

$\boxed{-x - 3 = y}$

2) $2x + y = -1$

$-2x \quad -2x$

$\boxed{y = -2x - 1}$

3) $-8x = -y + 3$

$-3 \quad -3$

$\frac{-8x}{-1} - \frac{3}{-1} = \frac{-y}{-1}$

$\boxed{8x + 3 = y}$

4) $2x + 3y = 0$

$-2x \quad -2x$

$\frac{3y}{3} = \frac{-2x}{3}$

$\boxed{y = \frac{-2}{3}x}$

5) $5x + 12 = -4y$

$\frac{}{-4} \quad \frac{}{-4} \quad \frac{}{-4}$

$\boxed{-\frac{5}{4}x - 3 = y}$

6) $3x - 2y = -6$

$-3x \quad -3x$

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

$\boxed{y = \frac{3}{2}x + 3}$

7) $5 + 3x = 5y$

$\frac{}{5} \quad \frac{}{5} \quad \frac{}{5}$

$\boxed{1 + \frac{3}{5}x = y}$

8) $-y = -2x - 5$

$\frac{}{-1} \quad \frac{}{-1} \quad \frac{}{-1}$

$\boxed{y = 2x + 5}$

9) $0 = -2 - y$

$+y \quad +y$

$\boxed{y = -2}$

10) $20 = x - 5y$

$-x \quad -x$

$\frac{-x}{-5} + \frac{20}{-5} = \frac{-5y}{-5}$

$\boxed{\frac{1}{5}x - 4 = y}$

$\frac{-x}{-5} = \frac{x}{5}$

$= \frac{1x}{5} = \frac{1}{5}x$

11) $-y - 2x = -2$

$+2x \quad +2x$

$\frac{-y}{-1} = \frac{2x}{-1} - \frac{2}{-1}$

$\boxed{y = -2x + 2}$

12) $-7x + 12 = -3y$

$\frac{}{-3} \quad \frac{}{-3} \quad \frac{}{-3}$

$\boxed{\frac{7}{3}x - 4 = y}$

13) $10 = -2y - x$

$+x \quad +x$

$\frac{x}{-2} + \frac{10}{-2} = \frac{-2y}{-2}$

$\boxed{-\frac{1}{2}x - 5 = y}$

14) $0 = -6x + 3y - 12$

$-3y \quad -3y$

$\frac{-3y}{-3} = \frac{-6x}{-3} - \frac{12}{-3}$

$\boxed{y = 2x + 4}$

15) $2x + 2y = -2$

$-2x \quad -2x$

$\frac{2y}{2} = \frac{-2x}{2} - \frac{2}{2}$

$\boxed{y = -x - 1}$

**9.4 Review Skills:**

1. Solve:

$-6x - 7x = -2$

$-13x = -2$

$\boxed{x = \frac{2}{13}}$

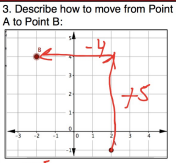
2. Simplify:

$-3(-12x - 5) + 10$

$36x + 15 + 10$

$\boxed{36x + 25}$

3. Describe how to move from Point A to Point B:




+5 units in the y direction

-4 units in the x direction

4. Solve:

$9 - 3x = -21$

5. Simplify:

$2(x + 1) - (-12x - 5)$