

## P.S. #3.7 - Isolating Variables

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

*Isolate y in each equation below.*

1.)  $y + 2 = x$

2.)  $y - 8 = 4x$

3.)  $2x + y = -3$

4.)  $4 + y = -9x$

5.)  $3y = 15x - 12$

6.)  $2y = -5x + 18$



7.)  $x - y = 9$

8.)  $2x - y = -3$

9.)  $8x - 4y = 12$

10.)  $9x + 5y = -20$

11.) Solve for x:  $\frac{3}{4}x + \frac{3}{2} = \frac{4}{5}x + 1$

12.) Simplify:  $4x + 3(5x - 7) - 2x + 4$

13.)  $14(n + 2) = 42$

14.)  $5(a - 3) = 2(a + 15)$

15.)  $8c - 72 = 12c - 72 - 4c$

16.)  $\frac{x + 5}{4} = 20$

17.)  $10p - 2(3p - 6) = 4(3p - 6) - 8p$

- 18.) Write an equation to find the value of  $x$  so that each pair of polygons has the same perimeter.  
Then solve.

