

2.1 Solving Equations - Day 6

Examples:

1. $8y - (5y + 2) = 16$

$$8y - 5y - 2 = 16$$

$$3y - 2 = 16$$

$$3y = 16 + 2$$

$$3y = 18$$

$$y = 18/3$$

$$y = 6$$

2. $5t - 2(t - 5) = 19$

$$5t - 2(t) - 2(-5) = 19$$

$$5t - 2t + 10 = 19$$

$$3t + 10 = 19$$

$$3t = 19 - 10$$

$$3t = 9$$

$$t = 9/3$$

$$t = 3$$

3. $27x - 3(x - 6) = 6$

$$27x - 3(x) - 3(-6) = 6$$

$$27x - 3x + 18 = 6$$

$$24x + 18 = 6$$

$$24x = 6 - 18$$

$$24x = -12$$

$$x = \frac{-12}{24}$$

$$x = -1/2$$

4. $3a + (2a - 5) + 2(a + 2) = 13$

$$3a + 2a - 5 + 2(a) + 2(2) = 13$$

$$3a + 2a - 5 + 2a + 4 = 13$$

$$3a + 2a + 2a - 5 + 4 = 13$$

$$7a - 1 = 13$$

$$7a = 13 + 1$$

$$7a = 14$$

$$a = 14/7$$

$$a = 2$$

HOMEWORK

Worksheet - HW 2.1 - Day 6