

Adding and Subtracting Variables Worksheet Answer Key

Everything You Need to Know, More or Less

Solve the following equations.

1. $3y - 9 - 2y = -6$

$$y = 3$$

6. $5(x - 2) + 11 = 2(2x + 1)$

$$x = 1$$

2. $11 - x + 3 = -2x$

$$x = -14$$

7. $4t - 9 + (3 + \sqrt{4t^2}) = 6t$

No solution

3. $9y + 2\left(4 - \frac{1}{2}\right) = 8y$

$$y = -7$$

8. $4t - 9 + (3 - (-2t)) = 5t$

$$t = 6$$

4. $5z - 8 + z = 6z - 2 - z$

$$z = 6$$

9. $\frac{w}{2} - 6 = 2\left(1 - \frac{w}{4}\right)$

$$w = 8$$

5. $-4a + 14 = -3a + 10$

$$a = 4$$

10. $\pi x + 2\pi = (1 + \pi)x - 1$

$$x = 2\pi + 1$$

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