

Solving Equations with Variables on Both Sides Assignment

Solve the equations given below. Identify the identity equation or the equation having no solution (if any).

1. $8x - 6 = 5x - 18$

2. $34y + 11 = y + 110$

3. $a - 100 = -16a - 15$

4. $b - 6 = 2\left(\frac{b}{2} - 3\right)$

5. $\frac{d}{18} + 3 = \frac{3d}{54} + 22$

6. $-3z - 1 = +2z - 1$

7. $\frac{k}{100} + 11 = \frac{k}{100} + 10$

8. $2(5x - 1) = 3(x + 11)$

9. $4(2f + 1) = 2(f - 13)$

10. $1100y = 100(y - 3) - 1000$

11. $\frac{t}{9} + 10 = 2\left(\frac{t}{18} + 4\right)$

12. $\frac{h}{2} + 3 = 3\left(\frac{h}{4} - 1\right)$

13. $10y + 12 = 2(5y + 6)$

Solving Equations with Variables on Both Sides Assignment

Solve the equations given below. Identify the identity equation or the equation having no solution (if any).

1. $8x - 6 = 5x - 18$

$x = -4$

2. $34y + 11 = y + 110$

$y = 3$

3. $a - 100 = -16a - 15$

$a = 5$

4. $b - 6 = 2\left(\frac{b}{2} - 3\right)$

Identity Equation

5. $\frac{d}{18} + 3 = \frac{3d}{54} + 22$

No Solution

6. $-3z - 1 = +2z - 1$

$z = 0$

7. $\frac{k}{100} + 11 = \frac{k}{100} + 10$

No Solution

8. $2(5x - 1) = 3(x + 11)$

$x = 5$

9. $4(2f + 1) = 2(f - 13)$

$f = -5$

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10. $1100y = 100(y - 3) - 1000$

_____ $y = -13$ _____

11. $\frac{t}{9} + 10 = 2\left(\frac{t}{18} + 4\right)$

_____ **No Solution** _____

12. $\frac{h}{2} + 3 = 3\left(\frac{h}{4} - 1\right)$

_____ $h = 0$ _____

13. $10y + 12 = 2(5y + 6)$

_____ **Identity Equation** _____