



Algebra 1

Topic: Solving Equations with Variables on Both Sides

Instructions

Solve the following equations with variables on both sides.

Practice Problems

1. $3x + 5 = 2x + 10$
2. $4x - 7 = 2x + 3$
3. $5x + 2 = 3x + 10$
4. $2x + 8 = x + 12$
5. $7x - 3 = 4x + 6$
6. $6x + 1 = 3x + 10$
7. $3x - 4 = 2x + 5$
8. $8x + 2 = 5x + 11$
9. $4x + 9 = 3x + 15$
10. $2x - 3 = x + 7$

Multiple Choice Questions

1. Solve: $4x + 3 = 2x + 11$. What is the value of x ?
A) 4
B) 6
C) 3
D) 5
2. Solve: $5x - 4 = 2x + 8$. What is the value of x ?

A) 4

C) 3

B) 5

D) 2

3. Solve: $6x + 2 = 4x + 12$. What is the value of x ?

A) 8

C) 5

B) 6

D) 3

4. Solve: $7x - 5 = 3x + 15$. What is the value of x ?

A) 4

C) 3

B) 6

D) 5

Challenge Problems

1. $2(3x - 4) = 4x + 10$

2. $5x - (2x + 3) = 12$

3. $3x + 6 = 2(x + 5) + 1$

4. $\frac{4x}{2} + 7 = 2x + 9$

5. $7(x - 1) = 3(x + 5)$

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