

Determining Variable Value to Balance Equations

Name: _____

Find the value of x.

1) $20 + 3x = 76 + -5x$

2) $33 + 3x = 63 + -7x$

3) $40 + -2x = 46 + -4x$

4) $-2x + 88 = -10x + 120$

5) $4x - 7 = 38 - 5x$

6) $0 + 4x = -4x + 48$

7) $-1x + 53 = 103 + -11x$

8) $-1x + 60 = -4x + 84$

9) $82 + -4x = 103 + -7x$

10) $54 + 4x = 63 + 1x$

11) $-3x + 53 = -7x + 89$

12) $83 + 1x = 101 + -2x$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____



Find the value of x.

1) $20 + 3x = 76 + -5x$
 $8x = 56$
 $x = 7$

2) $33 + 3x = 63 + -7x$
 $10x = 30$
 $x = 3$

3) $40 + -2x = 46 + -4x$
 $2x = 6$
 $x = 3$

4) $-2x + 88 = -10x + 120$
 $8x = 32$
 $x = 4$

5) $4x - 7 = 38 - 5x$
 $9x = 45$
 $x = 5$

6) $0 + 4x = -4x + 48$
 $8x = 48$
 $x = 6$

7) $-1x + 53 = 103 + -11x$
 $10x = 50$
 $x = 5$

8) $-1x + 60 = -4x + 84$
 $3x = 24$
 $x = 8$

9) $82 + -4x = 103 + -7x$
 $3x = 21$
 $x = 7$

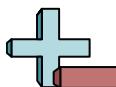
10) $54 + 4x = 63 + 1x$
 $3x = 9$
 $x = 3$

11) $-3x + 53 = -7x + 89$
 $4x = 36$
 $x = 9$

12) $83 + 1x = 101 + -2x$
 $3x = 18$
 $x = 6$

Answers

1. 7
2. 3
3. 3
4. 4
5. 5
6. 6
7. 5
8. 8
9. 7
10. 3
11. 9
12. 6



Determining Variable Value to Balance Equations

Name: _____

Find the value of x.

3
53
74
56
37
8Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1) $20 + 3x = 76 + -5x$

2) $33 + 3x = 63 + -7x$

3) $40 + -2x = 46 + -4x$

4) $-2x + 88 = -10x + 120$

5) $4x - 7 = 38 - 5x$

6) $0 + 4x = -4x + 48$

7) $-1x + 53 = 103 + -11x$

8) $-1x + 60 = -4x + 84$

9) $82 + -4x = 103 + -7x$

10) $54 + 4x = 63 + 1x$