



Determining Variable Value to Balance Equations

Name: _____

Find the value of x.

1) $5x + 2 = 52 + -5x$

2) $5x + 4 = 54 + 0x$

3) $3x + 28 = 82 - 3x$

4) $44 - 2x = 107 - 9x$

5) $5x + 44 = -1x + 56$

6) $2x + 49 = 0x + 65$

7) $4x + 72 = -5x + 99$

8) $15 + 2x = 31 - 6x$

9) $-3x + 66 = -13x + 116$

10) $-2x + 31 = -8x + 79$

11) $45 + -4x = 63 + -13x$

12) $4x + -14 = 22 + -2x$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____



Find the value of x.

$$1) \quad 5x + 2 = 52 + -5x$$

$$10x = 50$$

$$x = 5$$

$$2) \quad 5x + 4 = 54 + 0x$$
$$5x = 50$$
$$x = 10$$

$$3) \quad 3x + 28 = 82 - 3x$$
$$6x = 54$$
$$x = 9$$

$$4) \quad 44 - 2x = 107 - 9x$$
$$7x = 63$$
$$x = 9$$

$$5) \quad 5x + 44 = -1x + 56$$
$$6x = 12$$
$$x = 2$$

$$6) \quad 2x + 49 = 0x + 65$$
$$\textcolor{red}{2x = 16}$$
$$\textcolor{red}{x = 8}$$

$$7) \quad 4x + 72 = -5x + 99$$
$$9x = 27$$
$$x = 3$$

$$8) \quad 15 + 2x = 31 - 6x$$
$$8x = 16$$
$$x = 2$$

$$9) \quad -3x + 66 = -13x + 116$$
$$10x = 50$$
$$x = 5$$

$$10) \quad -2x + 31 = -8x + 79$$
$$6x = 48$$
$$x = 8$$

$$11) \quad 45 + -4x = 63 + -13x$$
$$9x = 18$$
$$x = 2$$

$$12) \quad 4x + -14 = 22 + -2x$$
$$\textcolor{red}{6x = 36}$$
$$\textcolor{red}{x = 6}$$

Answers

5

10

9

9

2

8

3

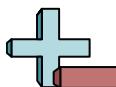
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5

8

?

6



Determining Variable Value to Balance Equations

Name: _____

Find the value of x.

10
28
59
85
29
3Answers

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

1) $5x + 2 = 52 + -5x$

2) $5x + 4 = 54 + 0x$

3) $3x + 28 = 82 - 3x$

4) $44 - 2x = 107 - 9x$

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