Determining Variable Value to Balance Equations   Name:

Find the value of x.

1) 67 - 5x = -13x + 83

2) -4x + 43 = 83 + -12x

1. _____

2. _____

3. _____

3) -2x + 49 = -8x + 103

4) 55 - 4x = -12x + 111

4. _____

5. _____

6. _____

5) -2x + 87 = 135 + -10x

6) -4x + 102 = -12x + 166

7. _____

8. _____

9. _____

7) -38 + 5x = -2x + 32

8) 32 - 2x = 68 - 11x

10. _____

11. _____

12. _____

9) 105 + -4x = -11x + 175

10) 7 + 1x = 55 - 5x

11) 4x + 27 = 107 + -4x

12) -5x + 83 = 101 - 14x

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1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Find the value of x.

1) $67 - 5x = -13x + 83$

$8x = 16$

$x = 2$

2) $-4x + 43 = 83 + -12x$

$8x = 40$

$x = 5$

1. _____ **2**

2. _____ **5**

3. _____ **9**

3) $-2x + 49 = -8x + 103$

$6x = 54$

$x = 9$

4) $55 - 4x = -12x + 111$

$8x = 56$

$x = 7$

4. _____ **7**

5. _____ **6**

6. _____ **8**

5) $-2x + 87 = 135 + -10x$

$8x = 48$

$x = 6$

6) $-4x + 102 = -12x + 166$

$8x = 64$

$x = 8$

7. _____ **10**

8. _____ **4**

9. _____ **10**

7) $-38 + 5x = -2x + 32$

$7x = 70$

$x = 10$

8) $32 - 2x = 68 - 11x$

$9x = 36$

$x = 4$

10. _____ **8**

11. _____ **10**

12. _____ **2**

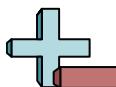**9)** $105 + -4x = -11x + 175$

$7x = 70$

$x = 10$

10) $7 + 1x = 55 - 5x$

$6x = 48$

$x = 8$

11) $4x + 27 = 107 + -4x$

$8x = 80$

$x = 10$

12) $-5x + 83 = 101 - 14x$

$9x = 18$

$x = 2$

Determining Variable Value to Balance Equations   Name:

Find the value of x.

Answers

1. _____

1) $67 - 5x = -13x + 83$

2) $-4x + 43 = 83 + -12x$

2. _____

3. _____

4. _____

3) $-2x + 49 = -8x + 103$

4) $55 - 4x = -12x + 111$

5. _____

6. _____

7. _____

5) $-2x + 87 = 135 + -10x$

6) $-4x + 102 = -12x + 166$

8. _____

9. _____

7) $-38 + 5x = -2x + 32$

8) $32 - 2x = 68 - 11x$

10. _____

9) $105 + -4x = -11x + 175$

10) $7 + 1x = 55 - 5x$