Determining Variable Value to Balance Equations   Name:

Find the value of x.

1) 89 + -2x = 107 + -11x

2) 55 + -5x = -15x + 105

1. _____

2. _____

3. _____

3) -2x + 45 = 85 + -12x

4) 59 + 1x = 99 + -7x

4. _____

5. _____

6. _____

5) -4x + 51 = 81 + -9x

6) 11 + 4x = -2x + 29

7. _____

8. _____

9. _____

7) 4x + 42 = -5x + 132

8) 5 + 2x = 85 + -8x

10. _____

11. _____

12. _____

9) 45 + 5x = -1x + 75

10) 3x + 32 = 72 + -1x

11) 2x + 70 = 119 + -5x

12) 25 + 5x = -1x + 43

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								
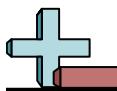
Find the value of x.

1) $89 + -2x = 107 + -11x$

$9x = 18$

$x = 2$

2) $55 + -5x = -15x + 105$

$10x = 50$

$x = 5$

1. _____ **2**

2. _____ **5**

3. _____ **4**

3) $-2x + 45 = 85 + -12x$

$10x = 40$

$x = 4$

4) $59 + 1x = 99 + -7x$

$8x = 40$

$x = 5$

4. _____ **5**

5. _____ **6**

6. _____ **3**

7. _____ **10**

5) $-4x + 51 = 81 + -9x$

$5x = 30$

$x = 6$

6) $11 + 4x = -2x + 29$

$6x = 18$

$x = 3$

8. _____ **8**

9. _____ **5**

7) $4x + 42 = -5x + 132$

$9x = 90$

$x = 10$

8) $5 + 2x = 85 + -8x$

$10x = 80$

$x = 8$

10. _____ **10**

11. _____ **7**

12. _____ **3**

9) $45 + 5x = -1x + 75$

$6x = 30$

$x = 5$

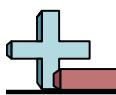**10)** $3x + 32 = 72 + -1x$

$4x = 40$

$x = 10$

11) $2x + 70 = 119 + -5x$

$7x = 49$

$x = 7$

12) $25 + 5x = -1x + 43$

$6x = 18$

$x = 3$

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

Determining Variable Value to Balance Equations Name:

Find the value of x.

2	8	4	3	5
10	10	5	5	6

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3) -2x + 45 = 85 + -12x

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