Determining Variable Value to Balance Equations

Find the value of x.

1) $-5x + 21 = 35 - 12x$

2) $-4x + 113 = 158 - 9x$

1. _____

2. _____

3. _____

3) $1x + 16 = 22 - 2x$

4) $76 + 1x = 124 + -7x$

4. _____

5. _____

6. _____

5) $-2x + 44 = 94 + -7x$

6) $9 + 3x = 39 + -3x$

7. _____

8. _____

9. _____

10. _____

7) $22 - 3x = 34 - 6x$

8) $-1x + 70 = -3x + 78$

11. _____

12. _____

9) $5x + 2 = 1x + 14$

10) $1x + 78 = 98 + -4x$

11) $25 - 2x = -6x + 45$

12) $12 + 2x = -6x + 60$

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

Find the value of x.

Answers
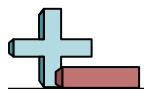
1) -5x + 21 = 35 - 12x

    7x = 14

    x = 2

2) -4x + 113 = 158 - 9x

    5x = 45

    x = 9

1. _____ **2**

2. _____ **9**

3) 1x + 16 = 22 - 2x

    3x = 6

    x = 2

4) 76 + 1x = 124 + -7x

    8x = 48

    x = 6

3. _____ **2**

4. _____ **6**

5. _____ **10**

6. _____ **5**

5) -2x + 44 = 94 + -7x

    5x = 50

    x = 10

6) 9 + 3x = 39 + -3x

    6x = 30

    x = 5

7. _____ **4**

8. _____ **4**

9. _____ **3**

7) 22 - 3x = 34 - 6x

    3x = 12

    x = 4

8) -1x + 70 = -3x + 78

    2x = 8

    x = 4

10. _____ **4**

11. _____ **5**

12. _____ **6**

9) 5x + 2 = 1x + 14

    4x = 12

    x = 3

10) 1x + 78 = 98 + -4x

    5x = 20

    x = 4

11) 25 - 2x = -6x + 45

    4x = 20

    x = 5

12) 12 + 2x = -6x + 60

    8x = 48

    x = 6

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

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Math