Determining Variable Value to Balance Equations   Name: _____

Find the value of x.

1) $5x + 8 = -3x + 64$

2) $3x + 42 = 0x + 54$

1. _____

2. _____

3. _____

3) $-5x + 128 = -12x + 184$

4) $53 + 5x = 67 + 3x$

4. _____

5. _____

6. _____

5) $75 + -4x = -14x + 155$

6) $81 - 2x = -6x + 89$

7. _____

8. _____

9. _____

7) $-26 + 4x = 64 - 6x$

8) $108 + -5x = 178 + -15x$

10. _____

11. _____

12. _____

9) $2x + 1 = -2x + 33$

10) $5x + 46 = -3x + 110$

11) $-3x + 98 = -10x + 119$

12) $2x + 56 = 70 + 0x$

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

Find the value of x.

1) $5x + 8 = -3x + 64$

$8x = 56$

$x = 7$

2) $3x + 42 = 0x + 54$

$3x = 12$

$x = 4$

1. _____**7**_____

2. _____**4**_____

3. _____**8**_____

3) $-5x + 128 = -12x + 184$

$7x = 56$

$x = 8$

4) $53 + 5x = 67 + 3x$

$2x = 14$

$x = 7$

4. _____**7**_____

5. _____**8**_____

6. _____**2**_____

7. _____**9**_____

5) $75 + -4x = -14x + 155$

$10x = 80$

$x = 8$

6) $81 - 2x = -6x + 89$

$4x = 8$

$x = 2$

8. _____**7**_____

9. _____**8**_____

10. _____**8**_____

7) $-26 + 4x = 64 - 6x$

$10x = 90$

$x = 9$

8) $108 + -5x = 178 + -15x$

$10x = 70$

$x = 7$

11. _____**3**_____

12. _____**7**_____

9) $2x + 1 = -2x + 33$

$4x = 32$

$x = 8$

10) $5x + 46 = -3x + 110$

$8x = 64$

$x = 8$

11) $-3x + 98 = -10x + 119$

$7x = 21$

$x = 3$

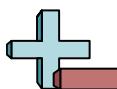**12)** $2x + 56 = 70 + 0x$

$2x = 14$

$x = 7$

1-10	92	83	75	67	58	50	42	33	25	17
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Math