



Find the value of x.

1)  $12 + 1x = -8x + 102$

2)  $1 + 1x = -8x + 82$

3)  $3 + 4x = -6x + 23$

4)  $-2 + 4x = 1x + 22$

5)  $69 - 2x = 133 - 10x$

6)  $-14 + 4x = 28 + -3x$

7)  $52 + -1x = 82 + -6x$

8)  $51 + 1x = -4x + 61$

9)  $-5x + 50 = 130 - 15x$

10)  $19 + 2x = 34 - 3x$

11)  $63 - 5x = -11x + 105$

12)  $63 + 2x = 83 + -3x$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Find the value of x.

1)  $12 + 1x = -8x + 102$   
 $9x = 90$   
 $x = 10$

2)  $1 + 1x = -8x + 82$   
 $9x = 81$   
 $x = 9$

3)  $3 + 4x = -6x + 23$   
 $10x = 20$   
 $x = 2$

4)  $-2 + 4x = 1x + 22$   
 $3x = 24$   
 $x = 8$

5)  $69 - 2x = 133 - 10x$   
 $8x = 64$   
 $x = 8$

6)  $-14 + 4x = 28 + -3x$   
 $7x = 42$   
 $x = 6$

7)  $52 + -1x = 82 + -6x$   
 $5x = 30$   
 $x = 6$

8)  $51 + 1x = -4x + 61$   
 $5x = 10$   
 $x = 2$

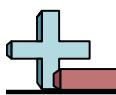
9)  $-5x + 50 = 130 - 15x$   
 $10x = 80$   
 $x = 8$

10)  $19 + 2x = 34 - 3x$   
 $5x = 15$   
 $x = 3$

11)  $63 - 5x = -11x + 105$   
 $6x = 42$   
 $x = 7$

12)  $63 + 2x = 83 + -3x$   
 $5x = 20$   
 $x = 4$

**Answers**1. **10**2. **9**3. **2**4. **8**5. **8**6. **6**7. **6**8. **2**9. **8**10. **3**11. **7**12. **4**



## Determining Variable Value to Balance Equations

Name: \_\_\_\_\_

Find the value of x.

8  
69  
26  
28  
38  
10Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

1)  $12 + 1x = -8x + 102$

2)  $1 + 1x = -8x + 82$

3)  $3 + 4x = -6x + 23$

4)  $-2 + 4x = 1x + 22$

5)  $69 - 2x = 133 - 10x$

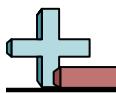
6)  $-14 + 4x = 28 + -3x$

7)  $52 + -1x = 82 + -6x$

8)  $51 + 1x = -4x + 61$

9)  $-5x + 50 = 130 - 15x$

10)  $19 + 2x = 34 - 3x$



Find the value of x.

1)  $22 - 3x = -12x + 40$

2)  $25 + 4x = -3x + 81$

3)  $2x + 5 = 0x + 21$

4)  $87 - 2x = 123 - 11x$

5)  $12 + 1x = 48 + -5x$

6)  $89 + -2x = 149 + -12x$

7)  $70 - 3x = -13x + 130$

8)  $2 + 1x = -5x + 62$

9)  $-4x + 45 = -10x + 75$

10)  $17 + 5x = 53 + -4x$

11)  $32 + 1x = -4x + 57$

12)  $81 - 3x = -12x + 162$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Find the value of x.

1)  $22 - 3x = -12x + 40$   
 $9x = 18$   
 $x = 2$

2)  $25 + 4x = -3x + 81$   
 $7x = 56$   
 $x = 8$

3)  $2x + 5 = 0x + 21$   
 $2x = 16$   
 $x = 8$

4)  $87 - 2x = 123 - 11x$   
 $9x = 36$   
 $x = 4$

5)  $12 + 1x = 48 + -5x$   
 $6x = 36$   
 $x = 6$

6)  $89 + -2x = 149 + -12x$   
 $10x = 60$   
 $x = 6$

7)  $70 - 3x = -13x + 130$   
 $10x = 60$   
 $x = 6$

8)  $2 + 1x = -5x + 62$   
 $6x = 60$   
 $x = 10$

9)  $-4x + 45 = -10x + 75$   
 $6x = 30$   
 $x = 5$

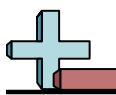
10)  $17 + 5x = 53 + -4x$   
 $9x = 36$   
 $x = 4$

11)  $32 + 1x = -4x + 57$   
 $5x = 25$   
 $x = 5$

12)  $81 - 3x = -12x + 162$   
 $9x = 81$   
 $x = 9$

**Answers**

1. **2**  
 2. **8**  
 3. **8**  
 4. **4**  
 5. **6**  
 6. **6**  
 7. **6**  
 8. **10**  
 9. **5**  
 10. **4**  
 11. **5**  
 12. **9**



## Determining Variable Value to Balance Equations

Name: \_\_\_\_\_

Find the value of x.

4  
210  
48  
56  
66  
8Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

1)  $22 - 3x = -12x + 40$

2)  $25 + 4x = -3x + 81$

3)  $2x + 5 = 0x + 21$

4)  $87 - 2x = 123 - 11x$

5)  $12 + 1x = 48 + -5x$

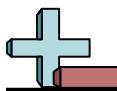
6)  $89 + -2x = 149 + -12x$

7)  $70 - 3x = -13x + 130$

8)  $2 + 1x = -5x + 62$

9)  $-4x + 45 = -10x + 75$

10)  $17 + 5x = 53 + -4x$



Find the value of x.

1)  $47 + -2x = -8x + 89$

2)  $35 + 5x = 83 + -3x$

3)  $2x + 44 = -5x + 86$

4)  $-3 + 3x = 37 - 1x$

5)  $5x + 44 = 62 + 2x$

6)  $-3x + 95 = -13x + 175$

7)  $20 + 1x = -8x + 56$

8)  $2x + 59 = -1x + 77$

9)  $56 - 4x = 110 - 10x$

10)  $3x - 7 = -6x + 47$

11)  $28 + 1x = -4x + 43$

12)  $78 + 3x = 90 + -1x$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

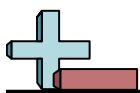
8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Find the value of x.

1)  $47 + -2x = -8x + 89$   
 $6x = 42$   
 $x = 7$

2)  $35 + 5x = 83 + -3x$   
 $8x = 48$   
 $x = 6$

3)  $2x + 44 = -5x + 86$   
 $7x = 42$   
 $x = 6$

4)  $-3 + 3x = 37 - 1x$   
 $4x = 40$   
 $x = 10$

5)  $5x + 44 = 62 + 2x$   
 $3x = 18$   
 $x = 6$

6)  $-3x + 95 = -13x + 175$   
 $10x = 80$   
 $x = 8$

7)  $20 + 1x = -8x + 56$   
 $9x = 36$   
 $x = 4$

8)  $2x + 59 = -1x + 77$   
 $3x = 18$   
 $x = 6$

9)  $56 - 4x = 110 - 10x$   
 $6x = 54$   
 $x = 9$

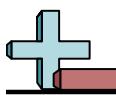
10)  $3x - 7 = -6x + 47$   
 $9x = 54$   
 $x = 6$

11)  $28 + 1x = -4x + 43$   
 $5x = 15$   
 $x = 3$

12)  $78 + 3x = 90 + -1x$   
 $4x = 12$   
 $x = 3$

**Answers**

1. 7
2. 6
3. 6
4. 10
5. 6
6. 8
7. 4
8. 6
9. 9
10. 6
11. 3
12. 3



Find the value of x.

10

6

6

4

6

6

9

8

7

6

1)  $47 + -2x = -8x + 89$

2)  $35 + 5x = 83 + -3x$

3)  $2x + 44 = -5x + 86$

4)  $-3 + 3x = 37 - 1x$

5)  $5x + 44 = 62 + 2x$

6)  $-3x + 95 = -13x + 175$

7)  $20 + 1x = -8x + 56$

8)  $2x + 59 = -1x + 77$

9)  $56 - 4x = 110 - 10x$

10)  $3x - 7 = -6x + 47$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

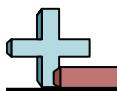
6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Find the value of x.

1)  $58 - 3x = -8x + 78$

2)  $1x + 6 = -1x + 18$

3)  $87 + -2x = 108 + -5x$

4)  $138 + -5x = 178 + -9x$

5)  $70 + -4x = 119 + -11x$

6)  $-4x + 55 = -10x + 73$

7)  $4x + 61 = 1x + 79$

8)  $-1x + 34 = 84 + -6x$

9)  $-2x + 69 = 159 - 12x$

10)  $3x + 78 = -6x + 114$

11)  $73 + 5x = 2x + 82$

12)  $102 - 3x = 142 - 8x$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

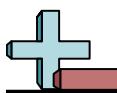
8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Find the value of x.

1)  $58 - 3x = -8x + 78$

$5x = 20$

$x = 4$

2)  $1x + 6 = -1x + 18$

$2x = 12$

$x = 6$

3)  $87 + -2x = 108 + -5x$

$3x = 21$

$x = 7$

4)  $138 + -5x = 178 + -9x$

$4x = 40$

$x = 10$

5)  $70 + -4x = 119 + -11x$

$7x = 49$

$x = 7$

6)  $-4x + 55 = -10x + 73$

$6x = 18$

$x = 3$

7)  $4x + 61 = 1x + 79$

$3x = 18$

$x = 6$

8)  $-1x + 34 = 84 + -6x$

$5x = 50$

$x = 10$

9)  $-2x + 69 = 159 - 12x$

$10x = 90$

$x = 9$

10)  $3x + 78 = -6x + 114$

$9x = 36$

$x = 4$

11)  $73 + 5x = 2x + 82$

$3x = 9$

$x = 3$

12)  $102 - 3x = 142 - 8x$

$5x = 40$

$x = 8$

**Answers**1. **4**2. **6**3. **7**4. **10**5. **7**6. **3**7. **6**8. **10**9. **9**10. **4**11. **3**12. **8**



Find the value of x.

9  
36  
710  
106  
44  
7**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

1)  $58 - 3x = -8x + 78$

2)  $1x + 6 = -1x + 18$

3)  $87 + -2x = 108 + -5x$

4)  $138 + -5x = 178 + -9x$

5)  $70 + -4x = 119 + -11x$

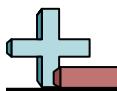
6)  $-4x + 55 = -10x + 73$

7)  $4x + 61 = 1x + 79$

8)  $-1x + 34 = 84 + -6x$

9)  $-2x + 69 = 159 - 12x$

10)  $3x + 78 = -6x + 114$



Find the value of x.

1)  $-5x + 82 = 94 + -8x$

2)  $13 + 4x = -1x + 28$

3)  $-4x + 50 = -9x + 75$

4)  $73 + -4x = -7x + 91$

5)  $5x + 26 = 2x + 50$

6)  $-2x + 91 = 112 + -9x$

7)  $3x + 41 = 77 + -1x$

8)  $-1x + 57 = 81 - 7x$

9)  $2x + 4 = -8x + 64$

10)  $-1x + 29 = -5x + 61$

11)  $38 - 4x = 53 - 7x$

12)  $-4x + 108 = 189 - 13x$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

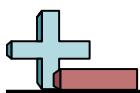
8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Find the value of x.

1)  $-5x + 82 = 94 + -8x$   
 $3x = 12$   
 $x = 4$

2)  $13 + 4x = -1x + 28$   
 $5x = 15$   
 $x = 3$

3)  $-4x + 50 = -9x + 75$   
 $5x = 25$   
 $x = 5$

4)  $73 + -4x = -7x + 91$   
 $3x = 18$   
 $x = 6$

5)  $5x + 26 = 2x + 50$   
 $3x = 24$   
 $x = 8$

6)  $-2x + 91 = 112 + -9x$   
 $7x = 21$   
 $x = 3$

7)  $3x + 41 = 77 + -1x$   
 $4x = 36$   
 $x = 9$

8)  $-1x + 57 = 81 - 7x$   
 $6x = 24$   
 $x = 4$

9)  $2x + 4 = -8x + 64$   
 $10x = 60$   
 $x = 6$

10)  $-1x + 29 = -5x + 61$   
 $4x = 32$   
 $x = 8$

11)  $38 - 4x = 53 - 7x$   
 $3x = 15$   
 $x = 5$

12)  $-4x + 108 = 189 - 13x$   
 $9x = 81$   
 $x = 9$

**Answers**

1. **4**  
 2. **3**  
 3. **5**  
 4. **6**  
 5. **8**  
 6. **3**  
 7. **9**  
 8. **4**  
 9. **6**  
 10. **8**  
 11. **5**  
 12. **9**



Find the value of x.

8  
96  
46  
38  
34  
5**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

1)  $-5x + 82 = 94 + -8x$

2)  $13 + 4x = -1x + 28$

3)  $-4x + 50 = -9x + 75$

4)  $73 + -4x = -7x + 91$

5)  $5x + 26 = 2x + 50$

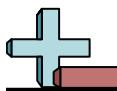
6)  $-2x + 91 = 112 + -9x$

7)  $3x + 41 = 77 + -1x$

8)  $-1x + 57 = 81 - 7x$

9)  $2x + 4 = -8x + 64$

10)  $-1x + 29 = -5x + 61$



Find the value of x.

1)  $4x + -8 = 1x + 7$

2)  $-2x + 103 = 148 + -7x$

3)  $78 + 2x = -1x + 93$

4)  $124 - 5x = -13x + 180$

5)  $4x + 47 = -4x + 71$

6)  $58 - 2x = 85 - 5x$

7)  $-4x + 89 = 145 - 12x$

8)  $61 - 5x = 133 - 13x$

9)  $66 - 3x = -7x + 98$

10)  $-5x + 82 = 172 + -15x$

11)  $5x + 48 = 96 - 1x$

12)  $75 + 2x = -1x + 90$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

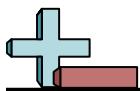
8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Find the value of x.

1)  $4x + -8 = 1x + 7$

$3x = 15$

$x = 5$

2)  $-2x + 103 = 148 + -7x$

$5x = 45$

$x = 9$

3)  $78 + 2x = -1x + 93$

$3x = 15$

$x = 5$

4)  $124 - 5x = -13x + 180$

$8x = 56$

$x = 7$

5)  $4x + 47 = -4x + 71$

$8x = 24$

$x = 3$

6)  $58 - 2x = 85 - 5x$

$3x = 27$

$x = 9$

7)  $-4x + 89 = 145 - 12x$

$8x = 56$

$x = 7$

8)  $61 - 5x = 133 - 13x$

$8x = 72$

$x = 9$

9)  $66 - 3x = -7x + 98$

$4x = 32$

$x = 8$

10)  $-5x + 82 = 172 + -15x$

$10x = 90$

$x = 9$

11)  $5x + 48 = 96 - 1x$

$6x = 48$

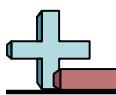
$x = 8$

12)  $75 + 2x = -1x + 90$

$3x = 15$

$x = 5$

**Answers**1. **5**2. **9**3. **5**4. **7**5. **3**6. **9**7. **7**8. **9**9. **8**10. **9**11. **8**12. **5**



## Determining Variable Value to Balance Equations

Name: \_\_\_\_\_

Find the value of x.

9  
75  
99  
95  
73  
8Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

1)  $4x + -8 = 1x + 7$

2)  $-2x + 103 = 148 + -7x$

3)  $78 + 2x = -1x + 93$

4)  $124 - 5x = -13x + 180$

5)  $4x + 47 = -4x + 71$

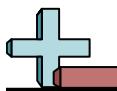
6)  $58 - 2x = 85 - 5x$

7)  $-4x + 89 = 145 - 12x$

8)  $61 - 5x = 133 - 13x$

9)  $66 - 3x = -7x + 98$

10)  $-5x + 82 = 172 + -15x$



Find the value of x.

1)  $2 + 3x = 11 + 0x$

2)  $2x + 3 = -1x + 30$

3)  $1x + 21 = 81 - 9x$

4)  $-3x + 100 = 135 + -8x$

5)  $54 + 1x = -8x + 81$

6)  $60 + 3x = 85 - 2x$

7)  $-3x + 66 = -13x + 136$

8)  $5x + 40 = -4x + 67$

9)  $105 - 5x = -7x + 117$

10)  $63 + 1x = 135 - 7x$

11)  $2x + 18 = -2x + 30$

12)  $5x + 24 = 64 - 5x$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

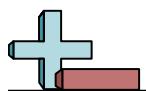
8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



**Find the value of x.**

$$1) \quad 2 + 3x = 11 + 0x$$
$$3x = 9$$
$$x = 3$$

$$2) \quad 2x + 3 = -1x + 30$$
$$3x = 27$$
$$x = 9$$

$$3) \quad 1x + 21 = 81 - 9x$$

$$10x = 60$$

$$x = 6$$

$$4) \quad -3x + 100 = 135 + -8x$$
$$\textcolor{red}{5x = 35}$$
$$\textcolor{red}{x \equiv 7}$$

$$5) \quad 54 + 1x = -8x + 81$$
$$\textcolor{red}{9x = 27}$$
$$\textcolor{red}{x = 3}$$

$$6) \quad 60 + 3x = 85 - 2x$$
$$5x = 25$$
$$x = 5$$

$$7) \quad -3x + 66 = -13x + 136$$

$$\textcolor{red}{10x = 70}$$

$$\textcolor{red}{x = 7}$$

$$\begin{aligned} 8) \quad & 5x + 40 = -4x + 67 \\ & 9x = 27 \\ & x = 3 \end{aligned}$$

$$9) \quad 105 - 5x = -7x + 117$$
$$2x = 12$$
$$x \equiv 6$$

$$10) \quad 63 + 1x = 135 - 7x$$
$$8x = 72$$
$$x = 9$$

$$11) \quad 2x + 18 = -2x + 30$$
$$4x = 12$$
$$x = 3$$

$$12) \quad 5x + 24 = 64 - 5x$$
$$10x = 40$$
$$x = 4$$

## Answers

3

9

6

7

5. 3

5

7

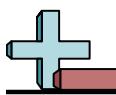
8. 3

9. 6

10. **9**

11.    3

12.         **4**



Find the value of x.

6  
69  
33  
75  
97  
3**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

1)  $2 + 3x = 11 + 0x$

2)  $2x + 3 = -1x + 30$

3)  $1x + 21 = 81 - 9x$

4)  $-3x + 100 = 135 + -8x$

5)  $54 + 1x = -8x + 81$

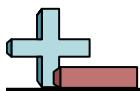
6)  $60 + 3x = 85 - 2x$

7)  $-3x + 66 = -13x + 136$

8)  $5x + 40 = -4x + 67$

9)  $105 - 5x = -7x + 117$

10)  $63 + 1x = 135 - 7x$



Find the value of x.

1)  $5x + 72 = 87 + 0x$

2)  $-5 + 5x = 19 + 1x$

3)  $3x + 41 = 0x + 65$

4)  $66 + 3x = 81 + 0x$

5)  $3x + 19 = 55 - 6x$

6)  $5x + 7 = 70 - 2x$

7)  $-3x + 43 = -5x + 61$

8)  $-2x + 39 = -7x + 89$

9)  $-2x + 90 = 117 + -11x$

10)  $-2x + 89 = 105 + -4x$

11)  $58 + -2x = 73 + -7x$

12)  $3x + 25 = -6x + 88$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

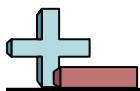
8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Find the value of x.

1)  $5x + 72 = 87 + 0x$

$5x = 15$

$x = 3$

2)  $-5 + 5x = 19 + 1x$

$4x = 24$

$x = 6$

3)  $3x + 41 = 0x + 65$

$3x = 24$

$x = 8$

4)  $66 + 3x = 81 + 0x$

$3x = 15$

$x = 5$

5)  $3x + 19 = 55 - 6x$

$9x = 36$

$x = 4$

6)  $5x + 7 = 70 - 2x$

$7x = 63$

$x = 9$

7)  $-3x + 43 = -5x + 61$

$2x = 18$

$x = 9$

8)  $-2x + 39 = -7x + 89$

$5x = 50$

$x = 10$

9)  $-2x + 90 = 117 + -11x$

$9x = 27$

$x = 3$

10)  $-2x + 89 = 105 + -4x$

$2x = 16$

$x = 8$

11)  $58 + -2x = 73 + -7x$

$5x = 15$

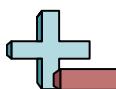
$x = 3$

12)  $3x + 25 = -6x + 88$

$9x = 63$

$x = 7$

**Answers**1. **3**2. **6**3. **8**4. **5**5. **4**6. **9**7. **9**8. **10**9. **3**10. **8**11. **3**12. **7**



Find the value of x.

4  
36  
39  
89  
105  
8**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

1)  $5x + 72 = 87 + 0x$

2)  $-5 + 5x = 19 + 1x$

3)  $3x + 41 = 0x + 65$

4)  $66 + 3x = 81 + 0x$

5)  $3x + 19 = 55 - 6x$

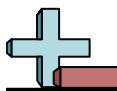
6)  $5x + 7 = 70 - 2x$

7)  $-3x + 43 = -5x + 61$

8)  $-2x + 39 = -7x + 89$

9)  $-2x + 90 = 117 + -11x$

10)  $-2x + 89 = 105 + -4x$



Find the value of x.

1)  $32 - 3x = -5x + 40$

2)  $-5x + 73 = -8x + 85$

3)  $53 + 1x = 59 - 2x$

4)  $2x + 60 = 95 + -3x$

5)  $-2x + 51 = -4x + 55$

6)  $50 + -4x = -8x + 74$

7)  $5x + 1 = 11 + 3x$

8)  $36 + 2x = -6x + 52$

9)  $-3x + 75 = 83 - 5x$

10)  $-3x + 64 = -7x + 96$

11)  $1x + 32 = 38 + -1x$

12)  $-12 + 4x = 16 + 0x$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

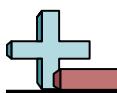
8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Find the value of x.

1)  $32 - 3x = -5x + 40$

$2x = 8$

$x = 4$

2)  $-5x + 73 = -8x + 85$

$3x = 12$

$x = 4$

3)  $53 + 1x = 59 - 2x$

$3x = 6$

$x = 2$

4)  $2x + 60 = 95 + -3x$

$5x = 35$

$x = 7$

5)  $-2x + 51 = -4x + 55$

$2x = 4$

$x = 2$

6)  $50 + -4x = -8x + 74$

$4x = 24$

$x = 6$

7)  $5x + 1 = 11 + 3x$

$2x = 10$

$x = 5$

8)  $36 + 2x = -6x + 52$

$8x = 16$

$x = 2$

9)  $-3x + 75 = 83 - 5x$

$2x = 8$

$x = 4$

10)  $-3x + 64 = -7x + 96$

$4x = 32$

$x = 8$

11)  $1x + 32 = 38 + -1x$

$2x = 6$

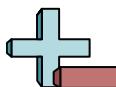
$x = 3$

12)  $-12 + 4x = 16 + 0x$

$4x = 28$

$x = 7$

**Answers**1. **4**2. **4**3. **2**4. **7**5. **2**6. **6**7. **5**8. **2**9. **4**10. **8**11. **3**12. **7**



Find the value of x.

4  
78  
26  
52  
44  
2**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

1)  $32 - 3x = -5x + 40$

2)  $-5x + 73 = -8x + 85$

3)  $53 + 1x = 59 - 2x$

4)  $2x + 60 = 95 + -3x$

5)  $-2x + 51 = -4x + 55$

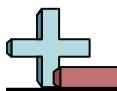
6)  $50 + -4x = -8x + 74$

7)  $5x + 1 = 11 + 3x$

8)  $36 + 2x = -6x + 52$

9)  $-3x + 75 = 83 - 5x$

10)  $-3x + 64 = -7x + 96$



Find the value of x.

1)  $-3x + 81 = -8x + 101$

2)  $59 - 4x = -12x + 75$

3)  $52 - 2x = 108 - 10x$

4)  $66 - 1x = 78 - 3x$

5)  $39 + 3x = 59 - 1x$

6)  $2x + 42 = 0x + 48$

7)  $4x + 19 = 75 - 3x$

8)  $1x + 81 = 126 - 4x$

9)  $91 + -5x = 121 + -8x$

10)  $1x + 49 = -3x + 85$

11)  $-3x + 82 = -10x + 110$

12)  $94 + -3x = -12x + 121$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



Find the value of x.

1)  $-3x + 81 = -8x + 101$   
 $5x = 20$   
 $x = 4$

2)  $59 - 4x = -12x + 75$   
 $8x = 16$   
 $x = 2$

3)  $52 - 2x = 108 - 10x$   
 $8x = 56$   
 $x = 7$

4)  $66 - 1x = 78 - 3x$   
 $2x = 12$   
 $x = 6$

5)  $39 + 3x = 59 - 1x$   
 $4x = 20$   
 $x = 5$

6)  $2x + 42 = 0x + 48$   
 $2x = 6$   
 $x = 3$

7)  $4x + 19 = 75 - 3x$   
 $7x = 56$   
 $x = 8$

8)  $1x + 81 = 126 - 4x$   
 $5x = 45$   
 $x = 9$

9)  $91 + -5x = 121 + -8x$   
 $3x = 30$   
 $x = 10$

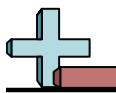
10)  $1x + 49 = -3x + 85$   
 $4x = 36$   
 $x = 9$

11)  $-3x + 82 = -10x + 110$   
 $7x = 28$   
 $x = 4$

12)  $94 + -3x = -12x + 121$   
 $9x = 27$   
 $x = 3$

**Answers**

1. 4
2. 2
3. 7
4. 6
5. 5
6. 3
7. 8
8. 9
9. 10
10. 9
11. 4
12. 3



Find the value of x.

2  
94  
75  
106  
89  
3Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

1)  $-3x + 81 = -8x + 101$

2)  $59 - 4x = -12x + 75$

3)  $52 - 2x = 108 - 10x$

4)  $66 - 1x = 78 - 3x$

5)  $39 + 3x = 59 - 1x$

6)  $2x + 42 = 0x + 48$

7)  $4x + 19 = 75 - 3x$

8)  $1x + 81 = 126 - 4x$

9)  $91 + -5x = 121 + -8x$

10)  $1x + 49 = -3x + 85$