



Chapter 2: Equations and Inequalities

Multi-Step Equations

 Solve each equation.

1) $4x - 7 = 13 \Rightarrow x = \underline{\hspace{2cm}}$

2) $26 = -(x - 4) \Rightarrow x = \underline{\hspace{2cm}}$

3) $-(5 - x) = 19 \Rightarrow x = \underline{\hspace{2cm}}$

4) $35 = -x + 14 \Rightarrow x = \underline{\hspace{2cm}}$

5) $2(3 - 2x) = 10 \Rightarrow x = \underline{\hspace{2cm}}$

6) $3x - 3 = 15 \Rightarrow x = \underline{\hspace{2cm}}$

7) $32 = -x + 15 \Rightarrow x = \underline{\hspace{2cm}}$

8) $-(10 - x) = -13 \Rightarrow x = \underline{\hspace{2cm}}$

9) $-4(7 + x) = 4 \Rightarrow x = \underline{\hspace{2cm}}$

10) $22 = 2x - 8 \Rightarrow x = \underline{\hspace{2cm}}$

11) $-6(3 + x) = 6 \Rightarrow x = \underline{\hspace{2cm}}$

12) $-3 = 3x - 15 \Rightarrow x = \underline{\hspace{2cm}}$

13) $-7(12 + x) = 7 \Rightarrow x = \underline{\hspace{2cm}}$

14) $8(6 - 4x) = 16 \Rightarrow x = \underline{\hspace{2cm}}$

15) $18 - 4x = -9 - x \Rightarrow x = \underline{\hspace{2cm}}$

16) $6(4 - x) = 30 \Rightarrow x = \underline{\hspace{2cm}}$

17) $15 - 3x = -5 - x \Rightarrow x = \underline{\hspace{2cm}}$

18) $9(-7 - 3x) = 18 \Rightarrow x = \underline{\hspace{2cm}}$

19) $16 - 2x = -4 - 7x \Rightarrow x = \underline{\hspace{2cm}}$

20) $14 - 2x = 14 + x \Rightarrow x = \underline{\hspace{2cm}}$

21) $21 - 3x = -7 - 10x \Rightarrow x = \underline{\hspace{2cm}}$

22) $8 - 2x = 11 + x \Rightarrow x = \underline{\hspace{2cm}}$

23) $10 + 12x = -8 + 6x = \underline{\hspace{2cm}}$

24) $25 + 20x = -5 + 5x = \underline{\hspace{2cm}}$

25) $16 - x = -8 - 7x \Rightarrow x = \underline{\hspace{2cm}}$

26) $17 - 3x = 13 + x \Rightarrow x = \underline{\hspace{2cm}}$

27) $22 + 5x = -8 - x \Rightarrow x = \underline{\hspace{2cm}}$

28) $-9(7 + x) = 9 \Rightarrow x = \underline{\hspace{2cm}}$

29) $12 + 2x = -4 - 2x \Rightarrow x = \underline{\hspace{2cm}}$

30) $12 - x = 2 - 3x \Rightarrow x = \underline{\hspace{2cm}}$

31) $19 - x = -1 - 11x \Rightarrow x = \underline{\hspace{2cm}}$

32) $14 - 3x = -5 - 4x \Rightarrow x = \underline{\hspace{2cm}}$