Solving Linear Equations (C)

Solve the following equations.
Some questions will have negative, fraction or decimal answers.

Section A

1) $4x + 10 = 30$ _____

2) $4x - 8 = 20$ _____

3) $5 + 2x = 65$ _____

4) $9 + 4x = -15$ _____

5) $14 + 6x = 2$ _____

6) $2x - 3 = -2$ _____

7) $5 + 10x = -15$ _____

8) $10 = 7 - x$ _____

9) $-3 = 16 - x$ _____

10) $-4 = 12 - 2x$ _____

11) $25 = 46 - 3x$ _____

12) $8 = 9 - 5x$ _____

Section B

1) $\dfrac{x}{2} + 11 = 19$ _____

2) $\dfrac{x}{7} - 6 = 1$ _____

3) $12 + \dfrac{x}{5} = 20$ _____

4) $3 = \dfrac{x}{4} - 3$ _____

5) $7 = \dfrac{x}{2} - 4$ _____

6) $-2 = \dfrac{x}{8} - 5$ _____

7) $-1 = 6 + \dfrac{x}{2}$ _____

8) $14 - \dfrac{x}{3} = 10$ _____

9) $5 - \dfrac{x}{9} = -1$ _____

10) $\dfrac{x + 5}{3} = 12$ _____

11) $\dfrac{x - 4}{11} = 9$ _____

12) $\dfrac{x + 3}{8} = -2$ _____

Section C

1) $3(x + 2) = 15$ _____

2) $2(x + 5) = 24$ _____

3) $6(x - 9) = 12$ _____

4) $2(3x + 5) = -44$ _____

5) $5(4x - 3) = 11$ _____

6) $-3(2x + 1) = 21$ _____

7) $-9(x - 4) = 54$ _____

8) $7(x - 4) - 3 = 46$ _____

9) $2(3x - 1) + 3 = 21$ _____

10) $2(x + 1) + 3x = 37$ _____

11) $12 + 4(2x + 4) = 68$ _____

12) $3x - 2(6x - 3) = 42$ _____

Solving Linear Equations (C)

Section D

1) $x + 8 = 3x$ _____

2) $6 + x = 2x$ _____

3) $10 + x = 6x$ _____

4) $3x - 24 = 5x$ _____

5) $4x + 7 = 6x$ _____

6) $9x + 13 = 7x$ _____

7) $12x - 5 = 71$ _____

8) $5 - 2x = 8x$ _____

9) $2 - 4x = 6x$ _____

10) $4(x + 3) = 7x$ _____

11) $5(2x - 1) = 16x$ _____

12) $3(6x + 4) = 2x$ _____

Section E

1) $9x + 2 = 4x + 12$ _____

2) $5x + 4 = 31 + 2x$ _____

3) $12 + 3x = 8x + 3$ _____

4) $20 + 2x = 6 + 9x$ _____

5) $7 + x = 13 + 4x$ _____

6) $5x - 3 = 2x + 6$ _____

7) $5x - 6 = 18 - 3x$ _____

8) $8 - 2x = 4 - 6x$ _____

9) $4x - 21 = 6x - 3$ _____

10) $x - 3 = 1 + 7x$ _____

11) $9x - 5 = 7 - 4x$ _____

12) $-8x + 4 = -26x + 1$ _____