

Solving Equations with Fractions

Solve each equation.

1 $\frac{2}{3}(x+2) - (x+4) = 3x+2$

2 $\frac{x+2}{6} = 4 + \frac{x-1}{2}$

3 $\frac{4x-3}{2} - \frac{1}{3} = \frac{2x-5}{2}$

4 $\frac{3}{4}x - \frac{3}{6}x = \frac{5}{12}$

5 $\frac{2x-1}{3} + \frac{2}{3} = \frac{x}{2}$

6 $\frac{7x+7}{9} - \frac{x+9}{7} = 29$

7 $\frac{4x+3}{6} - \frac{3x+6}{4} = \frac{5x+4}{3}$

8 $\frac{5(3x+8)}{3} - \frac{3(5x+8)}{5} = 8$

9 $\frac{3}{8}(x-8) = \frac{5x}{8}$

10 $\frac{9x+4}{4x+3} = \frac{5}{17}$

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Answers

$$1 \quad \frac{2}{3}(x+2) - (x+4) = 3x+2$$

$$x = -\frac{7}{5}$$

$$2 \quad \frac{x+2}{6} = 4 + \frac{x-1}{2}$$

$$x = -\frac{19}{2}$$

$$3 \quad \frac{4x-3}{2} - \frac{1}{3} = \frac{2x-5}{2}$$

$$x = -\frac{2}{3}$$

$$4 \quad \frac{3}{4}x - \frac{3}{6}x = \frac{5}{12}$$

$$x = \frac{5}{3}$$

$$5 \quad \frac{2x-1}{3} + \frac{2}{3} = \frac{x}{2}$$

$$x = -2$$

$$6 \quad \frac{7x+7}{9} - \frac{x+9}{7} = 29$$

$$x = \frac{1859}{40}$$

$$7 \quad \frac{4x+3}{6} - \frac{3x+6}{4} = \frac{5x+4}{3}$$

$$x = -\frac{4}{3}$$

$$8 \quad \frac{5(3x+8)}{3} - \frac{3(5x+8)}{5} = 8$$

$$x = -\frac{4}{15}$$

$$9 \quad \frac{3}{8}(x-8) = \frac{5x}{8}$$

$$x = -12$$

$$10 \quad \frac{9x+4}{4x+3} = \frac{5}{17}$$

$$x = -\frac{53}{133}$$