

Equations with Fractions

Solve each equation. Correct your answer to 2 decimal places, if needed.

$$\textcircled{1} \quad \frac{3-2x}{5} - \frac{4x-2}{4} = -8$$

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

$$\textcircled{3} \quad 6\left(\frac{1}{3}x - \frac{3}{5}\right) = \frac{5}{6}$$

$$\textcircled{4} \quad 2x + \frac{9}{5} = -\frac{11}{5}(x + 51)$$

$$\textcircled{5} \quad \frac{2(x-1)}{3} + \frac{2}{3} = \frac{9}{2}(x-7)$$

$$\textcircled{6} \quad \frac{3}{2} - \frac{7}{4}x = -\frac{3}{8}(x+2)$$

$$\textcircled{7} \quad \frac{9}{x+3} = \frac{16}{2x-4}$$

$$\textcircled{8} \quad \frac{3(x+1)}{5} = \frac{7-4x}{6}$$

$$\textcircled{9} \quad \frac{4x-4}{8} - \frac{4x-2}{6} = \frac{6x+7}{25}$$

$$\textcircled{10} \quad \frac{21(x+4)}{54} = \frac{2(x+9)+11}{6}$$

Equations with Fractions

Answers

$$\textcircled{1} \quad \frac{3-2x}{5} - \frac{4x-2}{4} = -8$$

$$x = 6.5$$

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

$$x = 13$$

$$\textcircled{3} \quad 6\left(\frac{1}{3}x - \frac{3}{5}\right) = \frac{5}{6}$$

$$x = 2.22$$

$$\textcircled{4} \quad 2x + \frac{9}{5} = -\frac{11}{5}(x + 51)$$

$$x = -27.14$$

$$\textcircled{5} \quad \frac{2(x-1)}{3} + \frac{2}{3} = \frac{9}{2}(x-7)$$

$$x = 8.22$$

$$\textcircled{6} \quad \frac{3}{2} - \frac{7}{4}x = -\frac{3}{8}(x+2)$$

$$x = 1.64$$

$$\textcircled{7} \quad \frac{9}{x+3} = \frac{16}{2x-4}$$

$$x = 42$$

$$\textcircled{8} \quad \frac{3(x+1)}{5} = \frac{7-4x}{6}$$

$$x = 0.45$$

$$\textcircled{9} \quad \frac{4x-4}{8} - \frac{4x-2}{6} = \frac{6x+7}{25}$$

$$x = -1.09$$

$$\textcircled{10} \quad \frac{21(x+4)}{54} = \frac{2(x+9)+11}{6}$$

$$x = 59$$