

Solving Linear Equations with Fractions

Solve each equation for x:

$$1) \frac{7}{10}(x - 1) + \frac{4}{5} = \frac{2}{3}x + \frac{1}{3}$$

$$2) \frac{2}{9}x - 2 = 3(x - 4) + \frac{8}{9}$$

$$3) 3x - \frac{8}{11} = \frac{3}{2}x + \frac{1}{4}$$

$$4) \frac{3}{5}x + 4 = \frac{9}{10}(x - 1) + \frac{7}{10}$$

Solutions:

$$1) x = 7$$

$$2) x = 4$$

$$3) x = \frac{43}{66}$$

$$4) x = 14$$