

March 8

Solving with Fractionsex Solve

$$3^{\cancel{x4}} = \frac{(3x+2)}{4} \times 4$$

Step 1Get rid of fraction
by multiplying

$$12^{\cancel{2}} = 3x + 2^{\cancel{2}}$$

Step 2 Solve

$$\frac{10}{3} = \frac{3x}{3} \quad \left(x = \frac{10}{3} \right)$$

$$\text{ex} \quad 5^{\cancel{x3}} = \frac{2(4x-6)}{3} \times 3$$

$$15 = 2(4x-6)$$

$$15^{+12} = 8x - 12^{+12}$$

$$\frac{27}{4} = \frac{8x}{4}$$

$$\left(x = \frac{27}{8} \right)$$

$$\frac{12}{12} \cdot \frac{6}{\cancel{2}} \left(\frac{x+3}{\cancel{2}} \right) = \frac{6}{\cancel{3}} \left(\frac{x-2}{\cancel{3}} \right)$$

$$3(x+3) = 2(x-2)$$

$$3x+9 = 2x-4$$

$$3x-2x = -4-9$$

$$x = -13$$

Step 1

• need a LCD

Step 2

multiply each term by LCD

Step 3

Reduce fractions

Step 4

Distribute & Solve

$$\text{ex } \frac{1}{4} (2x+6) = \frac{2}{3} (5x+1)$$

$$\frac{12}{12} \left(\frac{2x+6}{\cancel{4}} \right) = \frac{12}{12} \left(\frac{2(5x+1)}{\cancel{3}} \right)$$

$$3(2x+6) = 8(5x+1)$$

$$6x+18 = 40x+8$$

$$18-8 = 40x-6x$$

$$\frac{10}{34} = \frac{34x}{34}$$

$$x = \frac{5}{17}$$