

10/24/18

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

1. Find the Lcm of the denominators
2. Multiply everything by the LCM

Lcm:

$$4 \rightarrow 4, 8, 12, 16, 20, 24, \dots$$

$$3 \rightarrow 3, 6, 9, 12, 15, 18, 21, 24, \dots$$

$$\Rightarrow 12\left(\frac{2x}{4}\right) - 12(2) = 12\left(\frac{x}{3}\right) - 12(1)$$

$$\Rightarrow 6x - 24 = 4x - 12$$

$$\Rightarrow 6x - 4x = -12 + 24$$

$$\Rightarrow 2x = 12$$

$$\Rightarrow x = 6$$