

Solve

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

$$4(X+2) = 36 - 3(X+4)$$

$$4X+8 = 36 - 3X - 12$$

$$4X+8 = 24 - 3X$$

$$+3X \qquad \qquad \qquad +3X$$

$$7X + 8 = 24$$

$$-8 \qquad \qquad -8$$

$$\frac{7X}{7} = \frac{16}{7}$$

$$X = \frac{16}{7}$$