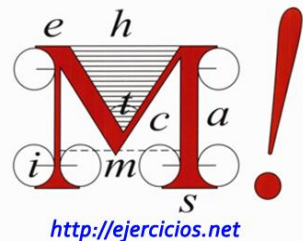


Algebra

Opera y simplifica



Resuelve la siguiente ecuación:

$$\frac{x+3}{4} - \frac{1}{3}x + 2\left(3x - \frac{1}{3}\right) = \frac{x+2}{6} - \frac{47}{4}$$

Solución:

$$\frac{x+3}{4} - \frac{1}{3}x + 2\left(3x - \frac{1}{3}\right) = \frac{x+2}{6} - \frac{47}{4}$$

$$\frac{x+3}{4} - \frac{x}{3} + 6x - \frac{2}{3} = \frac{x+2}{6} - \frac{47}{4}$$

$$\frac{3x+9}{12} - \frac{4x}{12} + \frac{72x}{12} - \frac{8}{12} = \frac{2x+4}{12} - \frac{141}{12}$$

$$3x + 9 - 4x + 72x - 8 = 2x + 4 - 141$$

$$3x - 4x + 72x - 2x = 4 - 141 - 9 + 8$$

$$69x = -138$$

$$x = -\frac{138}{69} = -2 \rightarrow x = -2$$