

[12-02-20A-T]

Algebra Practice

Solve for the unknown.

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

$$[2] 0.1(x - 1) + .2 = 0.5(x + 0.4)$$

$$[3] \frac{1}{3}x - 2 = \frac{1}{4}(x + 1)$$

Answers: [1] $x = 12$, [2] $x = -0.25$, [3] $x = 27$

Formulae

[1] $\{x \rightarrow 12\}$

[2] $\{x \rightarrow -0.25\}$

[3] $\{x \rightarrow 27\}$

[1] $\text{Solve}[5 - 3(x - 2) == 7 + 3(x - 5), x]$

[2] $\text{Solve}[3x - \frac{2}{3} == \frac{1}{6}x + 7, x]$

[3] $\text{Solve}[\frac{1}{2} - 2(x + 3) == 7 - 3(x - 4), x]$