Answer on Question #53314 - Math - Algebra

Question

Which expression is equivalent to 2/3(x+2)-1/3(x-2)?

Solution

$$\frac{2}{3} \cdot (x+2) - \frac{1}{3} \cdot (x-2) = |open \ brackets| = \frac{2}{3} \cdot x + \frac{2}{3} \cdot 2 - \frac{1}{3} \cdot x + \left(-\frac{1}{3}\right) \cdot (-2) = \frac{2}{3}x + \frac{4}{3} - \frac{1}{3}x + \frac{2}{3} = |collect \ similar \ terms| = \left(\frac{2}{3} - \frac{1}{3}\right)x + \left(\frac{4}{3} + \frac{2}{3}\right) = |simplify| = \frac{1}{3}x + \frac{6}{3} = \frac{1}{3}x + 2$$

Answer: $\frac{1}{3}x + 2$

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