

Answer on Question #46055 – Math - Integral Calculus

Integrate with respect to x :

$$\int_{-2}^2 (x^3 - 3x^2 + 2x - 5)dx$$

Solution.

$\int_{-2}^2 (x^3 - 3x^2 + 2x - 5)dx = \left\{ \frac{x^4}{4} - \frac{3x^3}{3} + \frac{2x^2}{2} - 5x \right\} \Big|_{-2}^2 = \{0 - 16 + 0 - 20\} = -36$. We used Newton – Leibnitz formula.

Answer: –36