## Answer on Question #46054 - Math - Integral Calculus

Task:

Integrate completely with respect to x :  $\int_1^2 (4x + 6) dx$ 

**Solution:** 

By Newton-Leibnitz formula,

$$\int_{1}^{2} (4x+6)dx = \left(\frac{4x^{2}}{2} + 6x\right)\Big|_{1}^{2} = (2 \cdot 2^{2} + 6 \cdot 2) - (2+6) = 8 + 12 - 8 = 12$$

Answer: 12