Answer on Question #50923 – Math – Integral Calculus

Integrate completely with respect to x: $\int 21(4x + 6)dx$ a 12 b 6 c 8 d 16

Solution

To solve this problem, apply the Newton-Leibniz formula and integral rules for power functions and addition:

 $\int_{1}^{2} (4x+6)dx = (2x^{2}+6x)|_{1}^{2} = (2 \cdot 2^{2}+6 \cdot 2) - (2 \cdot 1^{2}+6 \cdot 1) = 20 - 8 = 12$

Answer: a. 12.

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