Answer on Question # 47077 - Math - Differential Calculus | Equations Task:

Differentiate with respect to x: $f(x) = ax^3 + bx$

- A. $3ax^2+b$
- B. ax^2+b
- C. $3x^2+1$
- D. $3ax^2+x$

Solution:

$$\frac{d}{dx}(f(x)) = \frac{d}{dx}(ax^3 + bx) = 3ax^2 + b$$

We apply differentiation rules to the sum of functions and to the powers. Correct answer is A. 3ax²+b.