Answer on Question # 47078 – Math – Differential Calculus | Equations Task:

Differentiate with respect to x:

$$f(x) = 8x^3 + x^2$$

- A. 8x^3-x
- B. 24x^2-2x
- C. 2x^2-2
- D. 8x^2-x

Solution:

$$\frac{d}{dx}(f(x)) = \frac{d}{dx}(8x^3 + x^2) = 24x^2 + 2x,$$

We applied differentiation rule for the sum of functions and differentiation of powers.