

Answer on Question # 41640 – Math – Calculus

Differentiate with respect to
x: Find $f(x) = (7x^4 - 5x^3)$

Solution:

$$f(x) = 7x^4 - 5x^3$$
$$f'(x) = (7x^4 - 5x^3)' = (7x^4)' - (5x^3)' = 7 \cdot 4x^{4-1} - 5 \cdot 3x^{3-1} = 28x^3 - 15x^2$$

Answer: $f'(x) = 28x^3 - 15x^2$