

**Answer on Question #55808 – Math – Calculus**

differentiate the following  $(2x^2-7)$

**Solution**

$$(2x^2 - 7)' = (2x^2)' - (7)' = 2(x^2)' - 0 = 2 \cdot 2x = 4x.$$

We used the following rules for differentiation:

$$(f(x) - g(x))' = f'(x) - g'(x)$$

$$(af(x))' = a(f(x))', \text{ where } a \text{ is constant,}$$

and the following formulae:

$$(x^n)' = nx^{n-1}, \text{ where } n \text{ is integer,}$$

$$(b)' = 0, \text{ where } b \text{ is a constant.}$$