

Answer on Question # 46056 – Math – Integral Calculus

Task:

Integrate completely with respect to x :

$$\int 10(7-4x)^2 dx$$

79/3

14/15

81/70

16/3

Solution:

$$\int_0^1 (7-4x)^2 dx = \int_0^1 (49-56x+16x^2) dx = (49x - 28x^2 + \frac{16x^3}{3}) \Big|_0^1 = \frac{79}{3}$$

Answer: 79/3.