Answer on Question #46045- Math - Integral Calculus

Determine $I = \int 5 dx$, given that I = 16 when x = 2. 3x+C 5x+6 x+C

Solution.

At first, we will find the indefinite integral:

 $I = \int 5dx = 5 \int dx = 5x + C.$

We have condition that I = 16, when x = 2. Hence, we can define constant *C*:

 $16 = 5 \cdot 2 + C$, hence C = 16 - 10 = 6.

Answer: the second answer is correct

I = 5x + 6.

4x+C