

Important Integration Formulas & MCQs

In the following research-based article, we will discuss some important integration mcqs that you need to master and they all can be checked by the integral calculator.

Important Integration Mcqs

All of these multiple-choice questions can be verified by using the [integral calculator](#) developed by calculatored.com.

1. If we get the result as $g(x)$ after differentiating $f(x)$, what would be the result of integration?

- A. $f(x)$
 - B. $f'(x)$
 - C. $g'(x)$
 - D. None of the above
-

2. What is the result of $\int x \log x \, dx$?

- A. $x^{2/2} \log x + x/4 \log x - x^{2/4} + c$
 - B. $x^{2/2} \log x - x/4 \log x - x^{2/4} + c$
 - C. $x^{2/2} \log x - x/4 \log x + x^{2/4} + c$
 - D. $x^{2/2} \log x - x^{2/4} + c$
-

3. Integration of x is:

- A. 1
 - B. 5
 - C. 0
 - D. ∞
-

4. The product rule of integration states that:

- A. $dx = d(uv) \quad dx = u \, dv \, dx - v \, du \, dx$
 - B. $dx = d(uv) \quad dx = u \, dv \, dx * v \, du \, dx$
 - C. $dx = d(uv) \quad dx = u \, dv \, dx + v \, du \, dx$
 - D. $dx = d(uv) \quad dx = u \, dv \, dx / v \, du \, dx$
-

5. Integration is considered the reciprocal of:

- A. Differentiation
 - B. Test statistics
 - C. Limit derivation
 - D. None of the above
-

6. The outcome of $\int \sin 2x / 1 + \sin^2 x \, dx$ will be:

- A. $\tan^{-1}(\sin x) + c$
 - B. $\tan^{-1}(\cos x) + c$
 - C. $\log_e(1 + \sin^2 x) + c$
 - D. $\log_e(x + \sin^2 x) + c$
-

7. Integration is the heart of:

- A. Geometry

- B. Algebra
 - C. Differentiation
 - D. Calculus
-

8. What is the result of the following integration $\rightarrow \int \ln x \, dx$?

- A. $x \ln x - x$
 - B. $\frac{1}{x} \ln x$
 - C. $x - x \ln x$
 - D. $x \log_a x + x$
-

9. Evaluating $\int x^3 (1 + \log x) dx$ yields:

- A. $x^3 + c$
 - B. $e^{(x^x)} + c$
 - C. Both of the above
 - D. None of these
-

Integral Calculator Usage:

If you find problem to reduce all of the above-mentioned integrals, using an integration calculator will save a lot of your time and give you all correct answers. Using this tool is quite easy and straightforward. You just have to insert your equation and tap Calculate to get the desired results.

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