

**Direction:** Select the letter of the correct answer for each question below.

1) Calculate  $\int x^5 dx$

(a)  $\frac{x^5}{5} + C$

(b)  $\frac{x^6}{6}$

(c)  $\frac{x^5}{5}$

(d)  $\frac{x^6}{6} + C$

2) What is  $\int u^{3\pi} du$

(a)  $\frac{u^{3\pi}}{3\pi + 1} + C$

(b)  $\frac{u^{3(\pi+1)}}{3(\pi+1)} + C$

(c)  $\frac{u^{\pi-1}}{\pi-1} + C$

(d) the integral does not exist

3) Use the integration rules to compute for  $\int (3x^2 - 1) dx$

(a)  $x^2 + C$

(b)  $x^3 + C$

(c)  $x^3 - x + C$

(d)  $x^2 - x^3 + C$

4) Evaluate  $\int_1^2 3x dx$

(a) 9



## Basic Integration

## Practice Questions

- (b)  $9/2$
- (c)  $2/9$
- (d)  $\frac{2}{9}$

5) How many indefinite integrals does a function have?

- (a) 1
- (b) 2
- (c) 0
- (d) infinite



To get more Mathematics review materials, visit  
<https://filipiknow.net/basic-math/>

*To God be the glory!*