



LEMBAR KERJA PESERTA DIDIK

INTEGRAL

Nama :

Kelas :

Pilihlah satu jawaban yang tepat pada pertanyaan dibawah ini!

Integral Tak Tentu

1. Nilai dari $\int (12x^2 - 4x + 1)dx = \dots$

- a. $6x^3 - 4x^2 + x + C$
- b. $6x^3 - 4x^2 + C$
- c. $4x^3 + 2x^2 + x + C$
- d. $4x^3 - 2x^2 + x + C$
- e. $4x^3 + 2x^2 + x + C$

2. Hasil dari $\int (3x^2 - 5x + 4)dx = \dots$

- a. $x^3 - \frac{5}{2}x^2 + 4x + C$
- b. $x^3 - 5x^2 + 4x + C$
- c. $3x^3 - 5x^2 + 4x + C$
- d. $6x^3 - 5x^2 + 4x + C$
- e. $6x^3 - \frac{5}{2}x^2 + 4x + C$

3. Hasil dari $\int \frac{1}{2}x^2 + x - 1 dx = \dots$

- a. $x + 1 + C$
- b. $\frac{1}{6}x^3 + \frac{1}{2}x^2 - x + C$
- c. $\frac{1}{6}x^3 + x^2 - x + C$
- d. $x^3 + \frac{1}{2}x^2 - x + C$
- e. $x^3 + x^2 - x + C$

4. Hasil dari $\int (2x - 3)dx = \dots$

- a. $x^2 + 3x + C$
- b. $x^2 - 3x + C$
- c. $3x^2 + 3x + C$
- d. $3x^2 - 3x + C$
- e. $x^2 - 3 + C$

5. Hasil dari $\int \left(\frac{1}{3}x^3 + 3\right)dx = \dots$

- a. $\frac{1}{4}x^4 + 3x + C$
- b. $\frac{1}{6}x^4 + 3x + C$
- c. $\frac{1}{6}x^4 + 3x^2 + C$
- d. $\frac{1}{12}x^4 + 3x + C$
- e. $\frac{1}{8}x^4 + 3x^2 + C$

6. $\int (3x^2 + 2x + 4)dx = \dots$
- $6x^3 - 6x^2 + 4x + C$
 - $x^3 + x^2 + 4x + C$
 - $3x^3 + 2x^2 - x + C$
 - $3x^3 - 2x^2 + x + C$
 - $3x^3 - 3x^2 + 7x + C$
7. $\int (x + 2)(x - 3)dx = \dots$
- $x^2 - x - 6 + C$
 - $\frac{1}{2}x^2 - x - 6 + C$
 - $\frac{1}{3}x^2 - \frac{1}{2}x - 6x + C$
 - $\frac{1}{3}x^3 - \frac{1}{2}x - 6 + C$
 - $\frac{1}{3}x^3 - \frac{1}{2}x^2 - 6x + C$
8. $\int \frac{1}{3}x^2 + 6x + 8 dx = \dots$
- $\frac{2}{3}x^3 + 6 + C$
 - $\frac{1}{6}x^3 + 3x^2 + 8x + C$
 - $\frac{1}{6}x^3 + 6x^2 + 8x + C$
 - $\frac{1}{9}x^3 + 3x^2 + 8x + C$
 - $\frac{1}{9}x^3 + 6x^2 + 8x + C$
9. Hasil dari $\int (2x - \frac{1}{2x})^2 dx$ adalah
- $\frac{2}{3}x^3 - \frac{1}{2x} - 2x + C$
 - $\frac{2}{3}x^3 + \frac{1}{2x} - 2x + C$
 - $\frac{4}{3}x^3 - \frac{1}{2x} + 2x + C$
 - $\frac{4}{3}x^3 - \frac{1}{4x} - 2x + C$
 - $\frac{4}{3}x^3 + \frac{1}{4x} - 2x + C$
10. $\int \left(x - \frac{1}{2}\right) \left(x^2 + \frac{1}{2}x + \frac{1}{4}\right) dx = \dots$
- $\frac{1}{4}x^4 - \frac{1}{2}x + C$
 - $\frac{1}{4}x^4 + \frac{1}{2}x + C$
 - $\frac{1}{4}x^4 - \frac{1}{8}x + C$
 - $\frac{1}{4}x^4 - \frac{1}{16}x + C$
 - $\frac{1}{4}x^4 + \frac{1}{16}x + C$