LEMBAR KERJA PESERTA DIDIK

INTEGRAL

Nama : ……..

Kelas : ……..

Pilihlah satu jawaban yang tepat pada pertanyaan dibawah ini!

Integral Tak Tentu

1. Nilai dari $\int(12x^2 - 4x + 1)dx$ = ….
   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 $\int(3x^2 - 5x + 4)dx$ = ….
   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 $\int \frac{1}{2}x^2 + x - 1\, dx$ = ….
   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 $\int(2x - 3)dx$ = ….
   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 $\int\left(\frac{1}{3}x^3 + 3\right)dx$ = ….
   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. $\frac{1}{8}x^4 + 3x^2 + C$

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6. $\int(3x^2 + 2x + 4)dx = \ldots.$
   a. $6x^3 - 6x^2 + 4x + C$
   b. $x^3 + x^2 + 4x + C$
   c. $3x^3 + 2x^2 - x + C$
   d. $3x^3 - 2x^2 + x + C$
   e. $3x^3 - 3x^2 + 7x + C$
7. $\int(x + 2)(x - 3)dx = \ldots.$
   a. $x^2 - x - 6 + C$
   b. $\frac{1}{2}x^2 - x - 6 + C$
   c. $\frac{1}{3}x^2 - \frac{1}{2}x - 6x + C$
   d. $\frac{1}{3}x^3 - \frac{1}{2}x - 6 + C$
   e. $\frac{1}{3}x^3 - \frac{1}{2}x^2 - 6x + C$
8. $\int \frac{1}{3}x^2 + 6x + 8\, dx = \ldots.$
   a. $\frac{2}{3}x^3 + 6 + C$
   b. $\frac{1}{6}x^3 + 3x^2 + 8x + C$
   c. $\frac{1}{6}x^3 + 6x^2 + 8x + C$
   d. $\frac{1}{9}x^3 + 3x^2 + 8x + C$
   e. $\frac{1}{9}x^3 + 6x^2 + 8x + C$
9. Hasil dari $\int(2x - \frac{1}{2x})^2 dx$ adalah ….
   a. $\frac{2}{3}x^3 - \frac{1}{2x} - 2x + C$
   b. $\frac{2}{3}x^3 + \frac{1}{2x} - 2x + C$
   c. $\frac{4}{3}x^3 - \frac{1}{2x} + 2x + C$
   d. $\frac{4}{3}x^3 - \frac{1}{4x} - 2x + C$
   e. $\frac{4}{3}x^3 + \frac{1}{4x} - 2x + C$
10. $\int \left(x - \frac{1}{2}\right)\left(x^2 + \frac{1}{2}x + \frac{1}{4}\right) dx = \ldots.$
   a. $\frac{1}{4}x^4 - \frac{1}{2}x + C$
   b. $\frac{1}{4}x^4 + \frac{1}{2}x + C$
   c. $\frac{1}{4}x^4 - \frac{1}{8}x + C$
   d. $\frac{1}{4}x^4 - \frac{1}{16}x + C$
   e. $\frac{1}{4}x^4 + \frac{1}{16}x + C$

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