PRINCE EDWARD ISLAND CALCULUS 12 · UNIT D

Integrals and Their Applications — Practice Test

Prince Edward Island Calculus 12 • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The definite integral from 0 to 3 of 2 with respect to x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The integral of e^x is**

A. $x\,e^x$

B. e^x / x

C. $\ln x$

D. e^x + a constant

Understand It with Pulse | Flag a mistake

3 **The integral of 1x is**

- **A** x
- **B** e^x
- **C** the natural log of the |x + a constant|
- **D** $1x^2$

Understand It with Pulse | Flag a mistake

4 **The average value of a function over an interval is found by dividing the integral by**

- **A** 2 pi
- **B** the interval length
- **C** the function value
- **D** the maximum value

Understand It with Pulse | Flag a mistake

5 **The definite integral from 0 to 5 of x with respect to x as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The definite integral from 1 to 2 of x^2 with respect to x as a decimal , rounded to four decimal places , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The area under y = 2 from x = 1 to x = 6 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The definite integral from 0 to 4 of 2x with respect to x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The definite integral from 0 to 2 of 4 with respect to x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The indefinite integral of $3x^2$ evaluated as x^3 at x = 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	6	**5.**	12.5	**9.**	8
2.	D	**6.**	2.3333	**10.**	8
3.	C	**7.**	10		
4.	B	**8.**	16		

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