PRINCE EDWARD ISLAND CALCULUS 12 · UNIT B

Derivatives — 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 derivative of cosine x at x = 0 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The derivative of e^x at x = 1 as a decimal , rounded to four decimal places , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The derivative of sine x is**

A negative cosine x

B sine x

C cosine x

D negative sine x

Understand It with Pulse | Flag a mistake

4 **The derivative of cosine x is**

A negative cosine x

B negative sine x

C sine x

D cosine x

Understand It with Pulse | Flag a mistake

5 **Differentiability implies**

- A continuity
- B discontinuity
- C a constant slope
- D a zero derivative

Understand It with Pulse | Flag a mistake

6 **The derivative of 7x at any x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The derivative of x^2 at x = 6 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The derivative of x^4 at $x = 3$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The slope of the tangent to $y = x^3$ at $x = 2$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The derivative of $3x^2$ at $x = 2$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	0	**5.**	A	**9.**	12
2.	2.7183	**6.**	7	**10.**	12
3.	C	**7.**	12		
4.	B	**8.**	108		

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