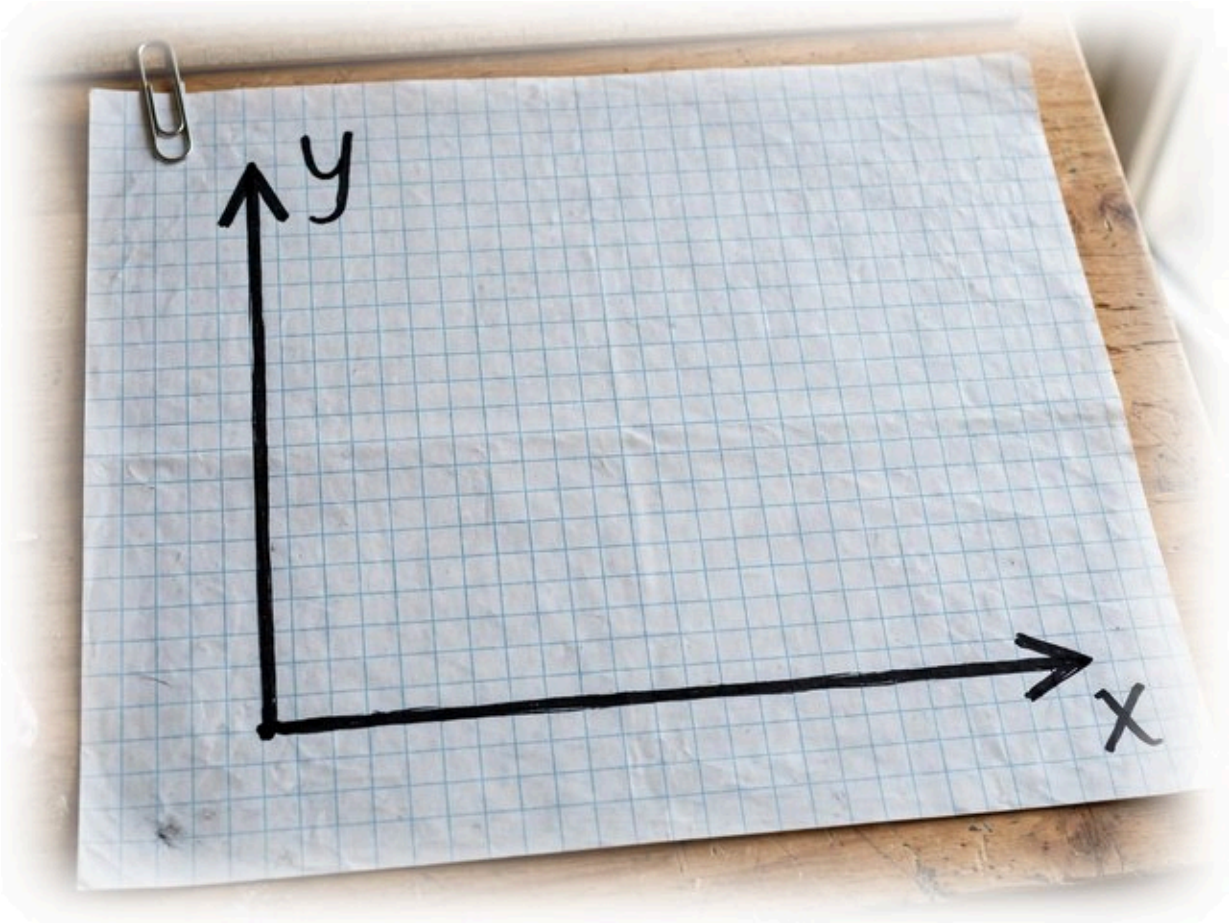
CONCAVITY, SECOND DERIVATIVE, AND CURVE SKETCHING - PRACTICE TEST | NEW BRUNSWICK CALCULUS 120 · UNIT D · 5 QUESTIONS

Concavity, Second Derivative, and Curve Sketching — Practice Test

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 **A coordinate grid shows x and y axes. For $f(x) = x^4$, the second derivative at $x = 2$ is**



ANSWER

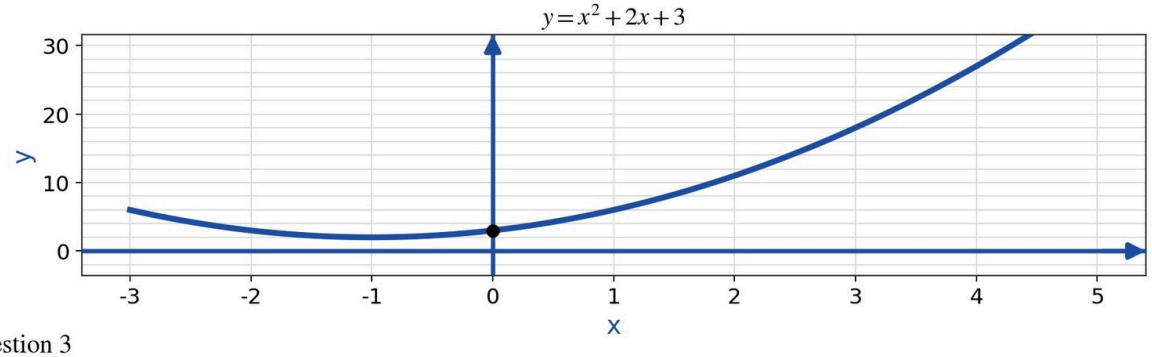
Understand It with Pulse | Flag a mistake

2 **For f(x) = x^3 - 6x , the second derivative at x = 1 is**

ANSWER

Understand It with Pulse | Flag a mistake

3 **The graph shows a quadratic function. The x -coordinate of its vertex is**



Question 3

The graph shows a quadratic function. The x −coordinate of its vertex is

ANSWER

Understand It with Pulse | Flag a mistake

4 **For f(x) = x^4 , the second derivative at x = 3 is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **For $f(x) = x^3 - 7x$, the second derivative at $x = 1$ is**

ANSWER

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ANSWER KEY

1. 48
2. 6
3. -1
4. 108
5. 6

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