MAXIMUM AND MINIMUM VALUES AND OPTIMIZATION - PRACTICE TEST | NEW BRUNSWICK CALCULUS 120 · UNIT C · 10 QUESTIONS

Maximum and Minimum Values and Optimization — 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 **For $f(x) = -x^2 + 8x$, the derivative at the maximum point is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **For $f(x) = -x^2 + 10x$, the derivative at the maximum point is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **For $f(x) = -x^2 + 12x$, the derivative at the maximum point is**

ANSWER _____

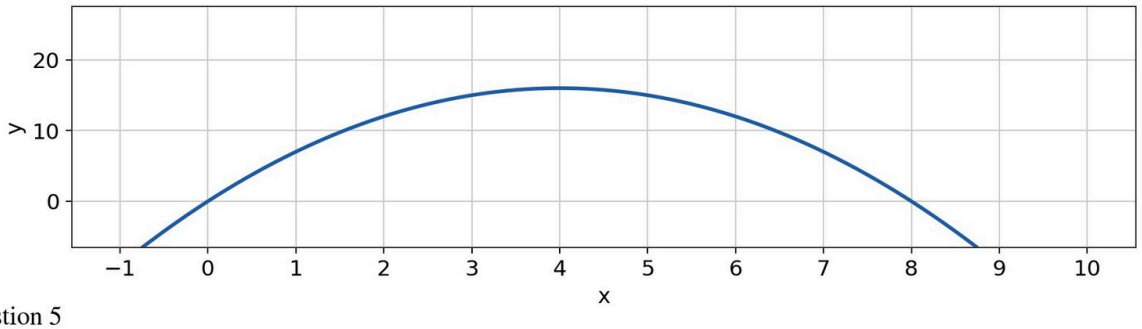
Understand It with Pulse | Flag a mistake

4 **For $f(x) = -x^2 + 14x$, the derivative at the maximum point is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **The graph shows a quadratic function. Its maximum occurs at x =**



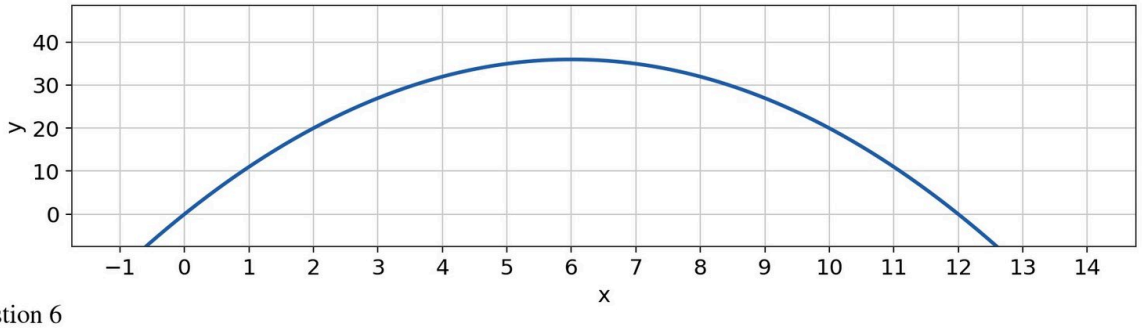
Question 5

The graph shows a quadratic function. Its maximum occurs at x =

ANSWER

Understand It with Pulse | Flag a mistake

6 The graph shows a quadratic function. Its maximum occurs at x =



Question 6

The graph shows a quadratic function. Its maximum occurs at x =

ANSWER

Understand It with Pulse | Flag a mistake

7 The function f(x) = -x² + 16x has its maximum at x =

ANSWER

Understand It with Pulse | Flag a mistake

8 The function f(x) = -x² + 20x has its maximum at x =

ANSWER

Understand It with Pulse | Flag a mistake

9 **The function $f(x) = -x^2 + 24x$ has its maximum at x =**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The function $f(x) = -x^2 + 10x$ has its maximum at x =**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	0	**5.**	4	**9.**	12
2.	0	**6.**	6	**10.**	5
3.	0	**7.**	8		
4.	0	**8.**	10		

© 2026 Brett Robbins. All Rights Reserved.