BRITISH COLUMBIA FOUNDATIONS OF MATHEMATICS 11 (MFOM-11) · UNIT B · 10 QUESTIONS

Graphical Analysis of Functions and Systems — 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 **The range of the parabola $y = x^2 - 6$ is**

- **A** $y \geq -6$
- **B** $y \leq -6$
- **C** $y \geq 6$
- **D** all real numbers

Understand It with Pulse | Flag a mistake

2 **The axis of symmetry of the parabola $y = x^2 - 8x + 1$ is**

- **A** $x = -4$
- **B** $x = 8$
- **C** $x = 4$
- **D** $x = -8$

Understand It with Pulse | Flag a mistake

3 **The graph of y = -2x + 8 crosses the x-axis at**

3 **The graph of y = -2x + 8 crosses the x-axis at**

Question 3

The graph of $y = -2x + 8$ crosses the x –axis at

A) (0, 8)

B) (8, 0)

C) (4, 0)

D) (–4, 0)

A (0, 8)

B (8, 0)

C (4, 0)

D (-4, 0)

A (0, 8)

B (8, 0)

C (4, 0)

D (-4, 0)

Understand It with Pulse

Flag a mistake

4 **If $f(x) = 2x^2 - 1$, then $f(-2)$ is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The parabola $y = x^2 + 4x + 3$ has x-intercepts at**

A $x = 1$ and $x = 3$

B $x = -1$ and $x = -3$

C $x = -1$ and $x = 3$

D $x = 3$ only

Understand It with Pulse | Flag a mistake

6 **The maximum value of $y = -x^2 + 6x - 5$ is**

A 9

B 6

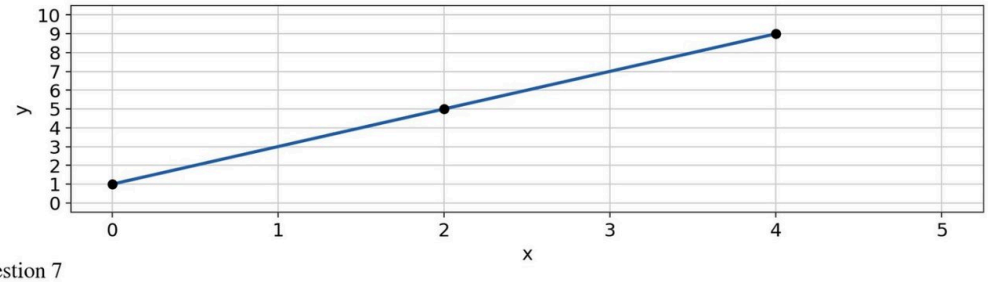
C -5

D 4

Understand It with Pulse | Flag a mistake

7 **The graph shows a line. The slope of the line is**

7 **The graph shows a line. The slope of the line is**



Question 7

The graph shows a line. The slope of the line is

A) 1

B) 2

C) 4

D) $\frac{1}{2}$

A 1

B 2

C 4

D $\frac{1}{2}$

A 1

B 2

C 4

D $\frac{1}{2}$

Understand It with Pulse

Flag a mistake

8 **Two graphs intersect at (2, 5) and (-1, 2). The system they form has**

- A no solution
- B one solution
- C two solutions
- D infinitely many solutions

Understand It with Pulse | Flag a mistake

9 **For y = 4x - 12, the values of x for which y < 0 are**

- A x > 3
- B x < 3
- C x > -3
- D x < -3

Understand It with Pulse | Flag a mistake

10 The domain of $y = \sqrt{x - 2}$ is

- **A** $x > 2$
- **B** $x \geq 2$
- **C** $x \leq 2$
- **D** all real numbers

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. C
3. C
4. 7
5. B
6. D
7. B
8. C
9. B
10. B

© 2026 Brett Robbins. All Rights Reserved.