YUKON 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 $x = -8$

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

- A (0, 8)
- B (8, 0)
- C (4, 0)
- D (-4, 0)

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

ANSWER _____

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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

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

- A 9
- B 6
- C -5
- D 4

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7 The points (0, 1), (2, 5), and (4, 9) lie on a line. The slope of the line is

- A 1
- B 2
- C 4
- D $\frac{1}{2}$

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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

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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

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

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

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ANSWER KEY

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

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