NORTHWEST TERRITORIES FOUNDATIONS OF MATHEMATICS 11 (MFOM-11) · NORTHWEST TERRITORIES

Northwest Territories Foundations of Mathematics 11 (MFOM-11) Practice Test

Unit B: Graphical Analysis of Functions and Systems

10 Questions

Original practice test based on the Northwest Territories curriculum. Work through each question, then check your answers at the end.

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.

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Question 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

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Question 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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Question 3

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

A) $(0, 8)$

B) $(8, 0)$

C) $(4, 0)$

D) $(-4, 0)$

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Question 4

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

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Question 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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Question 6

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

A) 9

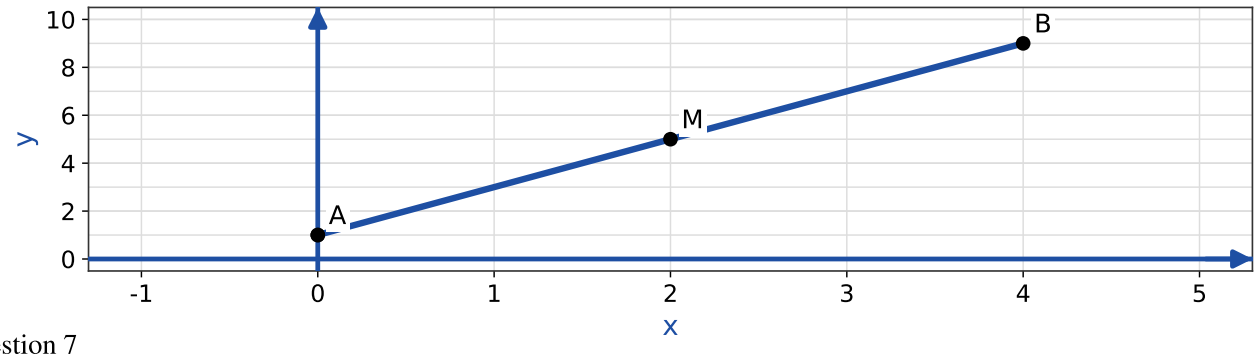
B) 6

C) −5

D) 4

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Question 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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Question 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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Question 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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Question 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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