NUNAVUT MATHEMATICS 10C · UNIT 4

Relations and Functions — Practice Test

Nunavut Mathematics 10C • 10 questions

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1 **A gym charges each member a monthly fee based on the number of classes the member attends. In this relation, the dependent variable is**

- A The number of classes attended
- B The member
- C The monthly fee charged
- D The month

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2 **The graph of a function crosses the x-axis at -5 and 3, and crosses the y-axis at -15. The zeros of the function are**

A -5 and 3

B -15

C -5, 3, and -15

D 3 and -15

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3 **If $g(x) = x^2 + 2x - 3$, then the value of $g(-4)$ is ____**

ANSWER _____

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4 **The graph shown gives the temperature in degrees Celsius over time in hours. The rate of change of temperature from 3 h to 8 h is**

- **A** 12°C/h
- **B** 1.5°C/h
- **C** 2.4°C/h
- **D** 3°C/h

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5 **Which of the following does NOT represent a function?**

- **A** $y = -x + 4$
- **B** $\{(3, 1), (4, 1), (5, 1), (6, 1)\}$
- **C** $x^2 + y^2 = 25$
- **D** $\{(0, 5), (1, 5), (2, 6), (3, 7)\}$

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6 **The point (k, 25) lies on the graph of $f(x) = x^2 + 9$. If $k > 0$, then the value of k is _____**

ANSWER _____

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7 **The area A of a square garden is a function of its side length s. The domain of this function is**

A All real numbers

B $s > 0$

C $s < 0$

D $A > 0$

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8 **The graph of function f is shown. The value of f(2) - f(0) is**

A -6

B 6

C -8

D 8

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9 **If $f(x) = 3x^2 - x$, then the value of f(2) - f(-1) is ____**

ANSWER _____

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10 **For the relation {(-2, 3), (0, 3), (2, 3), (4, 3)}, which statement is true?**

- **A** It is not a function because the output 3 is repeated
- **B** Its domain is {3}
- **C** Its domain and range are the same
- **D** Its range is {3}

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ANSWER KEY

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

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