NEWFOUNDLAND AND LABRADOR MATHEMATICS 3201 · UNIT D

# Functions and Polynomial Functions — Practice Test

**Newfoundland and Labrador Mathematics 3201 • 10 questions**

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** $x^2 - 9$ factors as

- A $(x - 3)(x + 3)$
- B $(x - 3)^2$
- C $(x + 3)^2$
- D $(x - 3)(x - 3)$

Understand It with Pulse | Flag a mistake

**2** If $f(x) = x^2 + 3x + 2$ , then $f(-1)$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The vertex of $y = (x - 3)^2 + 2$ has y coordinate**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The zeros of $y = (x - 1)(x + 4)$ are, counting only the positive zero**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **$(x^2 + 5x + 6)$ divided by $(x + 2)$ gives a quotient whose constant term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **$x^2 + 5x + 6$ factors as**

A $(x - 2)(x - 3)$

B $(x + 2)(x + 3)$

C $(x + 2)(x - 3)$

D $(x + 6)(x + 1)$

Understand It with Pulse | Flag a mistake

7 **$x^2 - 16$ factors as**

A $(x - 4)^2$

B $(x - 4)(x + 4)$

C $(x + 4)^2$

D $(x - 4)(x - 4)$

Understand It with Pulse | Flag a mistake

8 **If $f(x) = 2x^2 - 3x + 4$ , then $f(0)$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The vertex of $y = 2(x - 1)^2 + 5$ has y coordinate**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **$x^2 - 25$ factors as**

A $(x - 5)^2$

B $(x + 5)^2$

C $(x - 5)(x + 5)$

D $(x - 5)(x - 5)$

Understand It with Pulse | Flag a mistake

## ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | A | **5.** | 3 | **9.** | 5 |
| **2.** | 0 | **6.** | B | **10.** | C |
| **3.** | 2 | **7.** | B | | |
| **4.** | 1 | **8.** | 4 | | |

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