NUNAVUT MATH 30-1 · 5 QUESTIONS

Polynomial Functions — 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 **When $P(x) = 3x^3 + 2x^2 - 4x + 1$ is divided by $(x + 1)$, the remainder is**

- A -4
- B 10
- C -2
- D 4

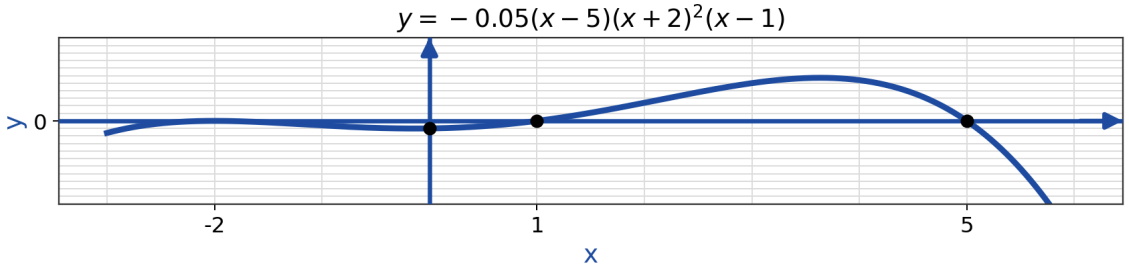
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2 **For the function $g(x) = 4x^2 - 7 + x^5 - 3x^3$, the degree and leading coefficient are**

- A Degree 3, leading coefficient -3
- B Degree 5, leading coefficient 1
- C Degree 5, leading coefficient 4
- D Degree 2, leading coefficient 4

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3 **The diagram below shows a polynomial function. Its x-intercepts are**



A 5, -2, 1

B -5, 2, 1

C 5, -2, -1

D -5, -2, 1

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4 **If (x + 2) is a factor of $x^3 + 3x^2 - 4x + k$, then the value of k is**

A 12

B -4

C 4

D -12

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5 **If $P(x) = 2x^3 - x^2 + 5x - 3$, then the value of $P(-2)$ is**

ANSWER

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ANSWER KEY

1. D
2. B
3. A
4. D
5. -33

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