NOVA SCOTIA MATHEMATICS 12 · UNIT D · 10 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 **Find the value at x = 3 of $1x^2 + 3x + 5$.**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Find the value at x = 2 of $3x^2 + 1x + 4$.**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Find the value at x = 2 of $2x^2 + 3x + 4$.**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A turning point of a polynomial graph is a point where the graph**

- A changes direction
- B crosses the y axis
- C crosses the x axis
- D has a break

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5 **The multiplicity of a zero affects whether the graph**

- A is defined there
- B crosses or touches the x axis there
- C has a maximum there
- D is a line there

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6 **If a polynomial has factor x - 3 , then x = 3 is**

A the y intercept

B the degree

C a zero of the polynomial

D the leading coefficient

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7 **A quartic polynomial has degree**

A 3

B 5

C 2

D 4

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8 **The constant term of a polynomial gives**

A the y intercept

B the x intercept

C the degree

D the leading coefficient

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9 **Synthetic division is a shortcut for dividing a polynomial by**

A a quadratic factor

B a linear factor x - a

C a constant

D another polynomial of higher degree

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10 **The graph of $y = x^3$ passes through**

A only positive values

B only negative values

C the origin

D no intercept

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 23
2. 18
3. 18
4. A
5. B
6. C
7. D
8. A
9. B
10. C

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