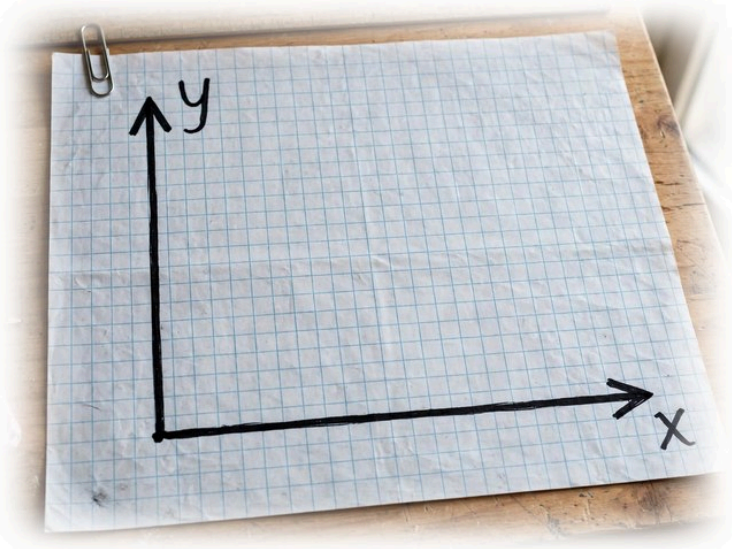
ONTARIO ADVANCED FUNCTIONS, GRADE 12, UNIVERSITY PREPARATION (MHF4U) · UNIT A · 5 QUESTIONS

Polynomial and Rational 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 **A coordinate grid with bold x and y axes on graph paper. As x approaches positive infinity, the graph of $y = -x^4$ approaches**



- **A** negative infinity
- **B** positive infinity
- **C** zero
- **D** one

Understand It with Pulse | Flag a mistake

2 For the polynomial $P(x) = x^3 - 5x$ the value of $P(2)$ is

- A 8
- B 0
- C -2
- D 9

Understand It with Pulse | Flag a mistake

3 The degree of $y = (x - 4)(x + 2)(x - 3)$ is

- A 2
- B 4
- C 1
- D 3

Understand It with Pulse | Flag a mistake

4 **The function y = x - 5/x - 5 has a hole or an asymptote at x equal to**

- A 6
- B -5
- C 5
- D 0

Understand It with Pulse | Flag a mistake

5 **The horizontal asymptote of y = 3x/x - 5 is y equal to**

- A 0
- B 5
- C 1
- D 3

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. C
3. D
4. C
5. D

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