POLYNOMIAL, RECIPROCAL, AND RATIONAL FUNCTIONS - PRACTICE TEST | NEW BRUNSWICK PRE-CALCULUS B 120 · UNIT B · 10 QUESTIONS

Polynomial, Reciprocal, and Rational Functions, 10-question test — 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 **For the polynomial f(x) equals x squared plus 2x plus 3, the value of f(3) is**

Question 1

For the polynomial $f(x) = x^2 + 2x + 3$, the value of $f(3)$ is

ANSWER _____

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2 **For the polynomial f(x) equals x squared plus 3x plus -2, the value of f(3) is**

Question 2

For the polynomial $f(x) = x^2 + 3x - 2$, the value of $f(3)$ is

ANSWER _____

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3 The graph of y equals 1 over x plus 2 has a horizontal asymptote at

Question 3

The graph of $y = 1 / x + 2$ has a horizontal asymptote at

A) $y = 2$

B) $y = 0$

C) $x = 0$

D) $y = 1$

A y=2

B y=0

C x=0

D y=1

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4 The graph of y equals 2 over x minus 1 has a horizontal asymptote at

Question 4

The graph of $y = 2 / x - 1$ has a horizontal asymptote at

A) $y = 0$

B) $y = -1$

C) $x = 0$

D) $y = 1$

- A y=0
- B y=-1
- C x=0
- D y=1

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5 A polynomial of degree 2 has at most this many real roots

Question 5

A polynomial of degree 2 has at most this many real roots

ANSWER

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6 **A polynomial of degree 3 has at most this many real roots**

Question 6

A polynomial of degree 3 has at most this many real roots

ANSWER

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7 **A polynomial of degree 4 has at most this many real roots**

Question 7

A polynomial of degree 4 has at most this many real roots

ANSWER

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8 **A polynomial of degree 5 has at most this many real roots**

Question 8

A polynomial of degree 5 has at most this many real roots

ANSWER

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9 **A polynomial of degree 6 has at most this many real roots**

Question 9

A polynomial of degree 6 has at most this many real roots

ANSWER

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10 **A polynomial of degree 7 has at most this many real roots**

Question 10

A polynomial of degree 7 has at most this many real roots

ANSWER

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ANSWER KEY

1. 18
2. 16
3. A
4. B
5. 2
6. 3
7. 4
8. 5
9. 6
10. 7

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