NOVA SCOTIA PRE-CALCULUS 12 · UNIT C · 10 QUESTIONS

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 **Find the non permissible value of x for the expression $\frac{1}{x - 21}$.**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Find the non permissible value of x for the expression $\frac{1}{x - 22}$.**

ANSWER _____

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3 **Find the non permissible value of x for the expression $\frac{1}{x - 23}$.**

ANSWER _____

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4 **A rational function with equal numerator and denominator degrees has a horizontal asymptote at**

- A the ratio of the leading coefficients
- B y equals 0
- C y equals 1
- D the ratio of the constant terms

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5 **A non permissible value is a value that**

- A makes the numerator zero
- B cannot be used in the expression
- C is always negative
- D is always a fraction

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6 **Multiplying rational expressions means multiplying**

- A numerators only
- B denominators only
- C numerators together and denominators together
- D cross terms only

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7 **Dividing by a rational expression is the same as multiplying by**

- A itself
- B its numerator
- C its denominator
- D its reciprocal

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8 **The graph of $y = \frac{1}{x - 2}$ is shifted from $y = \frac{1}{x}$ by**

- A 2 units right
- B 2 units left
- C 2 units up
- D 2 units down

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9 **The graph of $y = 1 / x + 3$ is shifted from $y = \frac{1}{x}$ by**

- A 3 units down
- B 3 units up
- C 3 units right
- D 3 units left

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10 **A rational equation can create extraneous solutions when both sides are multiplied by**

A a constant

B the numerator

C the denominator

D 1

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ANSWER KEY

1. 21
2. 22
3. 23
4. A
5. B
6. C
7. D
8. A
9. B
10. C

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