ALBERTA MATH 30-2 · UNIT 4 · 5 QUESTIONS

Rational Expressions and Equations — 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 rational expression $\frac{3x}{x + 5}$, the non-permissible value of x is

- **A** $x \neq 5$
- **B** $x \neq -5$
- **C** $x \neq 0$
- **D** $x \neq 3$

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2 **Colourful spinner wheel is divided into four equal sections. When written in simplest form, $6x^2\ 9x$, where $x \neq 0$, is equal to**



A $\frac{2x}{3}$

B $\frac{3}{2x}$

C $\frac{2}{3x}$

D $\frac{3x}{2}$

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3 The value of $\frac{x^2 - 1}{x + 1}$ when x = 6 is ____ Record your answer as an integer.

ANSWER _____

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4 The sum $\frac{3x}{x - 4} + \frac{5}{x - 4}$ is equal to

A $\frac{3x + 5}{2x - 8}$

B $\frac{3x}{x - 4}$

C $\frac{3x + 5}{x - 4}$

D $\frac{8x}{x - 4}$

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5 The product $\frac{4}{x} \cdot \frac{x^2}{8}$, where $x \neq 0$, simplified, is

A $\frac{1}{2x}$

B $\frac{x^2}{2}$

C $2x$

D $\frac{x}{2}$

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ANSWER KEY

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

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