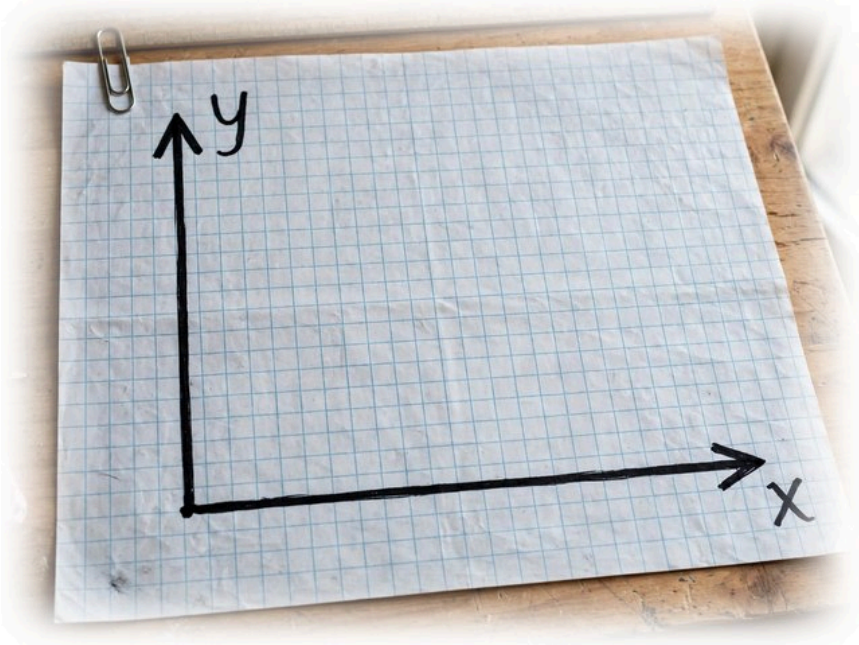
ALBERTA MATH 20-1 · UNIT 5 · 5 QUESTIONS

Rational Expressions — 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 shows x and y axes. The non-permissible values of $4x\ x^2 - x - 6$ are**



- **A** $x \neq 3, x \neq -2$
- **B** $x \neq -3, x \neq 2$
- **C** $x \neq 3, x \neq 2$
- **D** $x \neq -3, x \neq -2$

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2 When simplified, $\frac{x^2 - 5x + 6}{x^2 - x - 2}$ is equivalent to

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

B $\frac{x + 3}{x + 1}$

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

D $\frac{x - 3}{x + 1}$

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3 The product of the non-permissible values of $\frac{2x - 1}{x^2 + 3x - 10}$ is ____

ANSWER _____

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4 When simplified, $\frac{4x^2}{x - 3} \cdot \frac{x^2 - 9}{8x}$ is equivalent to

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

B $2x(x + 3)$

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

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

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5 When simplified, $\frac{1}{x} + \frac{2}{x - 3}$ is equivalent to

A $\frac{3}{x(x - 3)}$

B $\frac{3x - 3}{x(x - 3)}$

C $\frac{3x + 3}{x(x - 3)}$

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

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ANSWER KEY

1. A
2. D
3. -10
4. C
5. B

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