

Math 20-1 Rational Expressions

Multiple Choice Questions

- 1 The rational expression $\frac{(x+1)}{2(x-1)(4x+1)}$ has
- A. one restriction on x .
 - B. two restrictions on x .
 - C. three restrictions on x .
 - D. four restrictions on x .
- 2 Which of the following is the **correct lowest common denominator** for the rational addition problem $\frac{3}{x+1} + \frac{5}{x^2 - 2x - 3}$?
- A. $(x+1)(x-3)$
 - B. $(x+1)^2(x-3)$
 - C. $(x+1)(x-1)(x+3)$
 - D. $(x+1)(x^2 - 2x - 3)$
- 3 When simplified, $\frac{2x^2 - 2x}{x^2 - 1}$, $x \neq \pm 1$ simplifies to
- A. 2
 - B. $\frac{2x-1}{x+1}$
 - C. $\frac{2x}{x+1}$
 - D. $\frac{2x}{x-1}$
- 4 A student is working on the rational equation $\frac{2}{x+1} + \frac{4x}{x+1} = 7$, $x \neq -1$. After multiplying both sides of this equation $(x+1)$, the equation that will need to be solved is
- A. $2 + 4x = 7$.
 - B. $2 + 4x = 7x + 7$.
 - C. $2x + 2 + 4x^2 + 4x = 7$.
 - D. $2x + 2 + 4x^2 + 4x = 7x + 7$.

Multiple Choice Rational Expressions

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