

Algebra 2
Rational Unit Test Review

Part 1: Graphing Rational Functions Through Transformations

Determine the transformation of each function. Graph the function and determine the domain and range.

1. $y = \frac{8}{x+2} + 3$

2. $y = \frac{5}{x+4} - 2$

3. $y = -\frac{8}{x} + 6$

4. $y = \frac{4}{x-5}$

5. $y = \frac{-3}{x+3} + 4$

6. $y = 2 + \frac{5}{x+4}$

Part 2: Rational Functions

Determine the vertical asymptote, holes, and domain for each graph.

1. $y = \frac{x^2 + 2x}{-4x + 8}$

2. $y = \frac{3}{(x+3)(x-5)}$

3. $y = \frac{2x^2 + 10x + 12}{x^2 + 3x + 2}$

4. $y = \frac{x+3}{2x+6}$

5. $y = \frac{3x}{(x+7)^2}$

6. $y = \frac{x-3}{x+2}$

7. $y = \frac{x-4}{-4x+16}$

8. $y = \frac{x+4}{-2x+6}$

9. $y = \frac{x^2 - 9x}{3x^2 - 6x - 9}$

Part 3: Multiplying and Dividing Rational Expressions

Simplify each expression, determine what x can not equal so the denominator does NOT equal 0.

1. $\frac{x+3}{8} \cdot \frac{3x+18}{3x+9}$

2. $\frac{28-7y}{y-4} \cdot \frac{1}{y+10}$

3. $\frac{2}{x^2 - 12x + 27} \cdot \frac{x^2 - 12x + 27}{5}$

4. $\frac{x^2 - x - 56}{x^2 - 2x - 80} + \frac{3}{x+10}$

5. $\frac{28x^2 - 128}{x+5} + \frac{8-6}{8+5}$

6. $\frac{5}{x+9} + \frac{6-x}{3x+18}$

7. $\frac{32x^2y^3}{5x} \cdot \frac{10x}{y^3}$

8. $\frac{8x^2y}{2y} \cdot \frac{4x^2}{8y^2}$

9. $\frac{51x^2y^3}{12x^2} \cdot \frac{8x^2}{y^3}$

10. $\frac{32x^2}{y^2} + \frac{x^2}{y^2}$

11. $\frac{-2x^2}{15y^2} + \frac{8x^2y^2}{30x}$

12. $\frac{51x^2y}{-6xy} + \frac{6x^2}{4y^2}$

Graphing Practice Mixed Rationals Algebra 2 Key

Jiyuan Zhang



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