

Name: _____

Number: _____

Class: M.2/ _____

Test Polynomial Fractions

Multiple Choice Questions: Identify the choice that best completes the statement.

1. Simplify $\frac{8x-4}{x^2-9x+14} \times \frac{x^2-4x-21}{2x^2+5x-3}$

a. $\frac{4}{x-7}$

b. $\frac{4}{x-2}$

c. $\frac{4}{2x-1}$

d. $\frac{-4}{x+3}$

2. Simplify $\frac{5x-15}{2x^3} \div \frac{10x-30}{20x^5}$

a. $5x^2$

b. $10x^3$

c. $5x^3$

d. $10x^2$

3. Simplify $\frac{4x^3+20x^2}{14x} \times \frac{70x^3+7x^2}{x+5} \div \frac{10x^2-19x-2}{x^2+x-6}$

a. $2x^4+6x^3$

b. $2x^5+6x^4$

c. x^5+3x^4

d. x^4-6x^3

4. Simplify $\frac{3}{x-5} - \frac{4}{x+6}$

a. $\frac{-x+38}{x^2+x-30}$

b. $\frac{-x-39}{x^2+x-30}$

c. $\frac{-x+38}{x^2-x-30}$

d. $\frac{-x-39}{x^2-x-30}$

5. Simplify $\frac{7x-5}{x^2+12x+35} + \frac{3}{x+5}$

a. $\frac{10x+16}{x^2+12x+35}$

b. $\frac{10x+10}{x^2+12x+35}$

c. $\frac{10x-2}{x^2-12x+35}$

d. $\frac{10x-16}{x^2+12x-35}$