

Math 0408 – Intermediate Algebra Rational Expressions 2

Simplify each of the following completely.

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

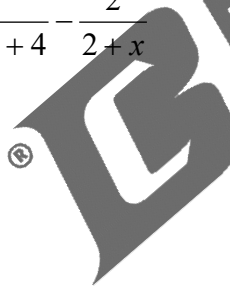
$$2. \frac{3}{a} + \frac{2}{a^2} - \frac{1}{a^3}$$

$$3. \frac{-3}{a^2 + a - 2} + \frac{5}{a^2 - a - 6}$$

$$4. \frac{9}{9x^2 + 6x - 8} - \frac{6}{9x^2 - 1}$$

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

$$6. \frac{2x - 8}{3x^2 + 8x + 4} + \frac{x + 3}{3x^2 + 5x + 2}$$

 Brazosport College
Math Center

Math 0408 – Intermediate Algebra Rational Expressions 2

$$7. \frac{2x+8}{x^2+5x+6} - \frac{x+5}{x^2+4x+3} - \frac{x-1}{x^2+3x+2}$$



Math 0408 – Intermediate Algebra Rational Expressions 2

1. $\frac{1}{(x-y)}$	2. $\frac{(3a-1)(a+1)}{a^3}$
3. $\frac{(2a-11)}{(a+2)(a-1)(a-3)}$	4. $\frac{3(9x^2-12x+13)}{(3x-1)(3x+1)(3x+4)(3x-2)}$
5. $\frac{-(x+4)}{(x+2)^2}$	6. $\frac{(x-1)}{(x+1)(x+2)}$
7. $\frac{(x+4)}{(x+1)(x+2)(x+3)}$	

