

Business PreCalculus MATH 1643 Section 004, Spring 2014
Homework 4: Due 1/27/2014

1- Perform the indicated operations and simplify the result:

a. $\frac{2x}{x^2-16} - \frac{2x-7}{x^2-7x+12}$

b. $\frac{1}{(x+h)^2} - \frac{1}{x^2}$

c. $\frac{\frac{1}{x-a} + \frac{1}{x+a}}{\frac{x}{x-a} - \frac{1}{x+a}}$

d. $\frac{x^2-1}{3x} \div \frac{7x-7}{x^2+x}$

e. $\frac{2-x}{x+1} \cdot \frac{x^2+3x+2}{x^2-4}$

2- Extra practice:

a. $x + \frac{x}{x+\frac{1}{2}}$

b. $\frac{2x-3}{9x^2-1} + \frac{4x-1}{(3x-1)^2}$