

Name: _____

Math 80 In-class Assignment
June 12, 2006

1. Find the LCD for the following fraction lists.

(a) $\frac{12}{m^2}, \frac{6}{m^5}$

(b) $\frac{15}{3a^3}, \frac{8}{9a-45}, \frac{2}{a+1}$

(c) $\frac{4}{x-y}, \frac{7}{5y-5x}, \frac{2}{3xy}$

2. Carry out the following operations.

(a) $\frac{3}{2x} + \frac{4}{7x}$

(b) $\frac{2x}{x-1} - \frac{4}{x^2-1}$

(c) $\frac{2p}{p-3} + \frac{2+p}{p} - \frac{-6}{p^2-3p}$

(d) $\frac{-8}{p-q^2} + \frac{3}{q^2-p}$

3. Simplify the following complex fractions.

(a) $\frac{\frac{-5}{6}}{\frac{5}{4}}$

(b) $\frac{\frac{1}{a^2} - \frac{1}{b^2}}{\frac{1}{a} - \frac{1}{b}}$

(c) $\frac{\frac{1}{1+a}}{a^2-1}$

(d) $\frac{2 + \frac{1}{5}}{\frac{12}{10} + 1}$