

Second Quiz
September 17, 2009

1. Simplify the following “complex” fraction: $\frac{\frac{2}{x} - \frac{3}{x^2}}{\frac{4x - 6}{x^3}}$

2. Simplify the following “complex” fraction: $\frac{\frac{x}{x - 3} - \frac{2}{x + 2}}{\frac{x^2 + 6}{x^2 - 4}}$

3. Solve the following equation: $\frac{x}{3 - x} - 1 = \frac{x}{2}$

4. Solve the following equation: $\frac{5}{x + 4} - \frac{3}{x - 1} = \frac{2(x - 10) + 3}{x^2 + 3x - 4}$