MAT 1033 Class Worksheet 13 **Name _____**

Must show all steps and all work to earn full credit.

Simplify.

1) $\dfrac{9 + \dfrac{3}{x}}{\dfrac{x}{4} + \dfrac{1}{12}}$

2) $\dfrac{\dfrac{2}{x} + \dfrac{3}{y}}{\dfrac{3}{x} - \dfrac{2}{y}}$

Simplify the complex fraction.

3) $\dfrac{\dfrac{1}{k + 2}}{\dfrac{5}{k^2 - 4}}$

Solve the equation.

4) $\dfrac{3}{y + 5} - \dfrac{9}{y - 5} = \dfrac{6}{y^2 - 25}$

5) $\dfrac{7}{m + 1} - \dfrac{6}{m - 1} = \dfrac{-14}{m^2 - 1}$