Module 2 – Rational Expressions
Lesson 4 – Complex Rational Expressions
Homework 1

Name _____

Simplify each of the following complex expressions

1. $\dfrac{\dfrac{x}{y}+3}{4+\dfrac{x}{y}}$

2. $\dfrac{4-\dfrac{1}{x^2}}{2-\dfrac{1}{x}}$

3. $\dfrac{\dfrac{x}{x-y}}{\dfrac{x^2}{x^2-y^2}}$

4. $\dfrac{1-\dfrac{6}{a^2+2}}{\dfrac{4a+2}{a^2+2}+1}$

5. $\dfrac{\dfrac{a}{a-1}-\dfrac{2a}{a-2}}{\dfrac{2a}{a-2}-\dfrac{3a}{a-1}}$