

# Calculus 3.4 Warm-up – 10/21/15

1) Calculate  $\frac{d}{dx} f(g(x)) = ?$  at  $x = -1$  given  $g'(1) = 2$   
 $g'(-1) = -2$   
 $g(1) = 0$  and  $f'(3) = -5$   
 $g(-1) = 4$   $f'(4) = -6$

2) Calculate  $f'(x)$  given  $f(x) = \frac{-2}{\sqrt[5]{(x^2 - 2x + 5)^4}}$

## Assignment 3.4

Pg. 53 # 1-9

## Agenda

- Warm-up
- 3.4 notes – Implicit Differentiation