

# Lecture Notes 09/21/2020

09/22/2020

## 1 Chain Rule

All we went over was usage of the chain rule. I didn't take notes during class so here:

The chain rule is:  $\frac{d}{dx}f(g(x)) = f'(g(x)) * g'(x)$  where  $f(x)$  is your outer function and  $g(x)$  is your inner function.

For example:

$$\frac{d}{dx} \sin(x^2) = \cos(x^2) * 2x = 2x\cos(x^2)$$

*EASY PEASY*