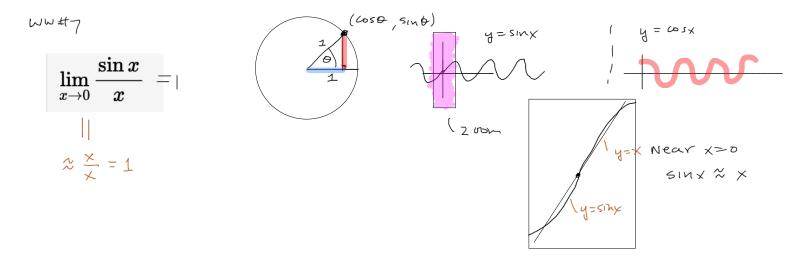
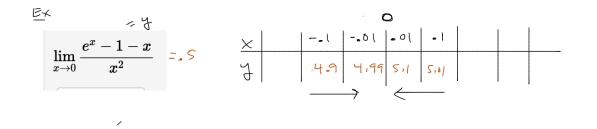
Friday - Week 3	
1.	Study Guide up!
2.	Limit exercises posted too.
3.	Today: More derivative calculations and interpretations
4.	WW Q's





Denvative Calculation

$$f(x) = \sqrt{2-1}$$

$$f'(x) = \sqrt{\frac{1}{2}(x-h)} - \frac{f(x)}{h} = \lim_{h \to 0} \frac{\sqrt{2+h-1}}{h} - \frac{\sqrt{2+h-1}}{\sqrt{2+h-1}} + \frac{\sqrt{2+1}}{\sqrt{2+h-1}}$$

$$= \lim_{h \to 0} \frac{x+h-1}{h} - \frac{(x-1)}{\sqrt{2+h-1}} = \lim_{h \to 0} \frac{h}{h} + \frac{1}{\sqrt{2+h-1}}$$

$$= \lim_{h \to 0} \frac{1}{\sqrt{2+h-1}} + \frac{1}{\sqrt{2-1}} = \frac{1}{\sqrt{2+h-1}} = \frac{1}{\sqrt{2+h-1}} = \frac{1}{\sqrt{2+h-1}}$$

$$= \lim_{h \to 0} \frac{1}{\sqrt{2+h-1}} + \frac{1}{\sqrt{2-1}} = \frac{1}{\sqrt{2+h-1}} = \frac{1}{\sqrt{2}-1}$$

$$= \frac{1}{\sqrt{2}-1}$$

$$\lim_{x \to 0} \frac{f}{g} = \frac{1}{1} + \frac{1}{1} + \frac{1}{1} = \frac{1}{\sqrt{2}-1}$$

$$\lim_{x \to 0} \frac{f}{g} = \sqrt{1} + \frac{1}{1} + \frac{1}{1} = \frac{1}{\sqrt{2}-1}$$

biff $A \square S$ () $(\widehat{A-B})(\widehat{A+B}) = A^{2} + AB - BA - B^{2}$ $= A^{2} - B^{2}$ $= \sqrt{2} \sqrt{2}$ $= \sqrt{2} \sqrt{2}$ $= \sqrt{2} \sqrt{2}$ $= \sqrt{2} \sqrt{2}$

