Homework 13 To be turned in at the Final

1. Find the derivative of $\cos (x)$ from the definition of the derivative.
2. Using the quotient rule find the derivative of $\tan (x)$.
3. Use the chain rule to find the derivative of $\arcsin (x)$.
4. Use the fundamental theorem of calculus to find $\int_{0}^{1} \frac{1}{1+x^{2}}$.
