**Differentiate the following.**

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 
11. 
12. 
13. Find the second derivative of 
14. What is the slope of the tangent line to 

**Differentiate the following.**

1. *y* = csc(*x*)
2. *y* = cot(*x*)
3. *f*(*x*) = *x*tan(*x*)
4. 