## MATH 151 Homework 13

Due 2/27

Read Sections 3.5 and 3.6.
Do Section 3.5 Exercises 3, 6, 11, 18, 23, 35
Do Section 3.6 Exercise 6
Also, do the following exercises.
SF37. (a) Find the equation for the tangent line to the graph of $f(x)=\sin (x)$ at $x=0$.
(b) Find the equation for the tangent line to the graph of $f(x)=\sin (x)$ at $x=\pi / 3$.
(c) Use each tangent line to approximate $\sin (\pi / 6)$. Would you expect these results to have the same accuracy, since they are taken equally far away from $x=\pi / 6$ but on opposite sides? If the accuracies are different, can you account for the difference?

