

ECON 2500
Fall 2009
Dr. Tufte

Homework 14

Due: Friday, October 9, at the start of class.

1) Use the spreadsheet we worked on in class (that is saved in the class folder on G) to approximate the slope of $f(x) = x^{0.5}$ at $x = 9$.

a) What do you get with a run of 10?

b) What do you get with a run of 1?

c) What do you get with a run of .1?

2) If you have a function that look like this $f(x) = x^a$ then $f'(x) = ax^{a-1}$

a) What is $f'(x)$ for $f(x) = x^{0.5}$?

b) What is $f'(9)$?