

MATH 101-09 Quiz #4

Name:.....**ID:**.....

Exercise #1: Let $f(x) = x\sqrt{4-x^2}$ on the interval $[-2, 2]$, At which point x , f attains its maximum value?

Exercise #2: Find a linear approximation of $f(x) = x \ln x$ around $x_0 = 2$.