

**“QUIZ” for Oct. 20, 2008**

**NAME:** (print!) \_\_\_\_\_ **Section:** \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

**1.** Let  $f(x) = \sqrt{4+x}$ . Using the linear approximation of  $f(x)$  at  $a = 5$  compute an approximation to  $f(4)$ .

**2.** Use Newton's method with  $x_1 = 2$  to find the second approximation to the equation  $x^4 - 17 = 0$ .