Quiz

Name:

1. Find the partial derivatives of: (a) $z = \sqrt{x + 2y}$

(b) $f(u, v) = u \sin(uv)$

2.Let $A(x, y) = x^3y + 2xy$. (a) Write the full microscope equation for A at the point where x = 1 and y = 2.

(b) Note that when x = 1 and y = 2 that $A(1, 2) = (1)^3(2) + 2(1)(2) = 6$. If A is increased to 6.1 and y is decreased to 1.8, then approximate the change in x.