KFUPM MATH101 Quiz#5 Sec. 2

Name Sr.#

**Q**1

13. A plane flying horizontally at an altitude of 1 mi and a speed of 500 mi/h passes directly over a radar station. Find the rate at which the distance from the plane to the station is increasing when it is 2 mi away from the station.

**52.** Find y' if  $x^y = y^x$ .