## King Fahd University of Petroleum and Minerals Math. & Stat. Departement Quiz # 4

Name	ID	SEC 28	Sr

Q1) Find the equation of the tangent line to the curve  $x^2 + xy + y^3 = 1$  at the point where x = 1.

Q2) Find the derivative of  $y = x \sin^{-1} x + \sqrt{1 - x^2}$ .

Q3) Find the derivative of  $y = (\tan x)^{\frac{1}{x}} + \log_3(e^x - 1)$ .

Q4) A particle moves with position function  $s = f(t) = \frac{9t}{t^2+9t}, \quad t \ge 0.t$  is measurd is seconds and *s* in meters. Find the total distance travelld by the particle during the first 4 seconds.