King Fahd University of Petroleum and Minerals Math. & Stat. Department 163-Math 101 Quiz (3)

Name	ID	SEC 09

Q1) If $f(x) = \frac{g(x^2)}{xe^x}$, g'(4) = -1, g(4) = 4 find the slope of the normal line to the curve f(x) at x = 2.

Q2) Find all $x \in (0,2\pi)$ at which the tangent lines to $f(x) = \tan x - \cot x$ are parallel to the line y = 4x - 1.

Q3) Find $\frac{d^{25}}{dx^{25}}(x\cos x).$