King Fahd University of Petroleum and Minerals
Math & Stat. Departement
Quiz (1)

Name	ID	SEC	Sr

Q1) Find parametric equations of the tangent line to the curve

$x = t,\ y = \frac{1}{2}t^2,\ z = \frac{1}{3}t^3$ at $t = 2$

Q2) find the curl and the divergence of the vector field given by

$F(x, y, z) = 3x^2 y\,\vec{i} + 2xz^3\,\vec{j} + y^4\vec{k}$

Q3)Evaluate $\oint_c (x^2 + y^2)dx - 2xy\ dy$ on the given close curve C .