

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-101 QUIZ III

NAME:

S.No.

ID:

Maximum Marks: 10

Section:10

Time Allowed: 20 minutes

(a) Let $\vec{A} = \langle 2, 1, 1 \rangle$ and $\vec{B} = \langle 2, 4, -1 \rangle$ be two vectors. Find the vector projection of \vec{B} onto \vec{A} .

(b) Find the area of a triangle with vertices P(2, 1, 5), Q(-1, 3, 4) and R(3, 0, 6).

(c) Find the unit vector that are parallel to the tangent line to the parabola $y = x^2$ at the point (2, 4).