

King Fahd University of Petroleum & Minerals  
Department of Mathematics and Statistics  
(Semester 18) Math 201 Quiz # 2

Name: \_\_\_\_\_ I.D. # \_\_\_\_\_ Sr. # \_\_\_\_\_

1. Find the scalar and vector projections of  $\vec{b} = i + 2j + 3k$  onto  $\vec{a} = 5i - k$ .
2. Find the unit vectors that are parallel to the tangent line to the curve  $y = 2 \sin x$  at  $x = \pi/6$ .