

PHYSICS – 133 – QUIZ # 2
TERM 062

Instructor: Dr. Al-Solami

Student's Name _____ ID # _____ Sec.# _____

1) Two vectors \vec{v}_1 and \vec{v}_2 whose components are (3,-2) and (-3,2). Find $\vec{v}_1 - \vec{v}_2$ magnitude and direction.

2) A football is kicked at a ground level with an initial speed of 10 m/s at an angle of 40° to the horizontal. How much latter does it hit the ground.

3) Two boxes of mass 80 kg and 100 kg are in contact and rest on a horizontal surface. A 800 N force is exerted on the 80 kg box. If the surface is smooth, find the force each box exert on the other.

4) State Newton's three Laws.