

ENGINEERING MECHANICS

BAA1113

QUIZ 1 (CO1)

by

*Dr Nurul Nadrah Aqilah bt Tukimat
Faculty of Civil Engineering & Earth Resources
nadrah@ump.edu.my*

QUIZ 1 (CO1) – (a)

Q1: A concrete 200mm square beam has a length of 9m. If the density (mass/volume) of concrete is 2.45 Mg/m^3 , determine the weight of the beam (in kg). *(5 marks)*

QUIZ 1 (CO 1) -- (b)

Q2: Two cars were used to pull the light container on the road. If the force resultant is 3kN at positive x-axis, determine the force of Car B (F_B) and its direction of θ (10 marks)

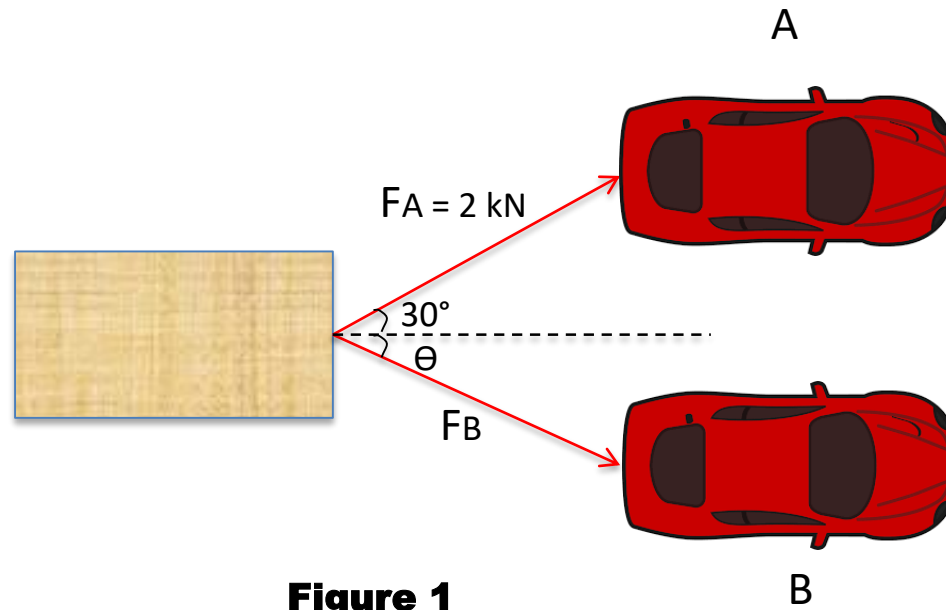


Figure 1