

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
MATHEMATICAL DEPARTMENT

Math. 002

Term(051)

Quiz 2

Name:

I.D.#

Sec.# 09

SHOW ALL YOUR WORK

Q1. For $\frac{\pi}{2} < t < \pi$, write $\tan t$ in terms of $\sin t$.

Q2. The angle of elevation to the top of a radio antenna on the top of building is 45° . After moving 50 cm closer to the building, the angle of elevation is 60° . Find the height of the building if the height of the antenna is 100cm.

Q3. Find the exact value of $\cot\left(\frac{-29\pi}{3}\right) + \cos\frac{35\pi}{4}$

Q4. If the terminal side of an angle θ lies on the line $2y + x = 0$ in second quadrant, then find $\csc\theta - \tan\theta$.

Q5. Convert decimal degree measure 20.32° to degree-minute-second.