

King Fahd University of Petroleum and Minerals
Diploma Math Program
Math 004 - Term 033
Quiz#2 (4.5 – 5.3)

Name: _____ **ID:** _____ **Sec.:** _____

Show all steps for full credit

Question1: Fill in the blank (10 pts)

a. If a wheel is rotating at 100 revolutions per minute, then the angular speed of the wheel in radian per second is _____.

Solution:

b. If $\theta = -110$, then reference angle θ' is _____.

Solution:

c. The exact value of $\tan 54^\circ + \tan 126^\circ + \tan 330^\circ$ is _____.

Solution:

d. If the terminal side of an angle θ passes through the point $(-12, 5)$, then $\tan \theta + \sec \theta$ _____.

Solution:

e. If $\alpha = 44^\circ 6' 2''$, then the supplement of the angle α is _____.

Solution:

