King Fahd University of Petroleum and Minerals Diploma Math Program Math 004 - Term 033

Quiz#2 A (4.5 - 4.6)

Name:	ID:	Sec.:

Show all steps for full credit

Question1:

For the function $y = -2\sec(\frac{\pi}{2}x + \pi) + 1$

a) Complete the following table (write the rule when that necessary). (4 pts)

the period	the amplitude	the phase shift	the range

b) Graph the function over one complete period (4 pts)

Question2: (4 pts)

Consider the function $f(x) = -\frac{3}{2}\cot(2x - \frac{\pi}{4})$

- a) Find the period of f(x) (1 pt)
- b) Find the equation of all vertical asymptotes over the interval $[-\pi, \pi]$. (3 pts)
- c) Find the x-intercepts over the interval $[-\pi, \pi]$. (3 pts)

Question3: (4 pts)

The graph given below represents the graph of a sine function of the form $y = a\cos(bx + c) + d$. Find the values of a,b,c, and d.

