Clue 3: Q(1:a) $y = sec x = \frac{1}{\cos x}$ h= 0.001 $|ROC = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h}$ = lim Cos(3+0.001) - (05(3) 0.001 = lim -1.009765 +1.010108666 V h >0 = lim 1.4346 x10-4 h>0 = lim 0.14// V b) AROC = $\frac{f(x_2) - f(x_1)}{x_2 - x_1} = \frac{1}{\cos \frac{3\pi}{4}} - \frac{1}{\cos \frac{\pi}{4}}$ -2.828 = -1,8,, \ $\rightarrow y = csc\left(x + \frac{\pi}{2}\right)$

Total for due 3./10