

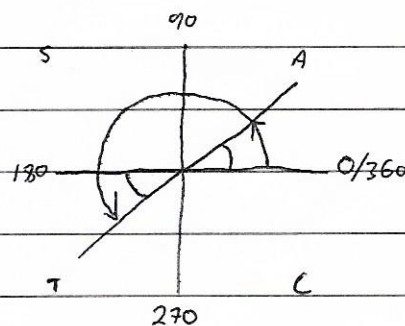
NAME: BRADLEY BURTON  
 STUDENT ID: 1803066  
 DATE/TIME: 28<sup>TH</sup> APRIL 2020 11:00 HRS  
 MODULE CODE: M4X02193  
 MODULE DES: ANALYTICAL METHODS WITH STUDY SKILLS

E)  $\int_0^3 x^2 + 3x + 2 \, dx$   $\frac{x^3}{3} + \frac{3x^2}{2} + 2x$   
 $\frac{3^3}{3} + \frac{3(3)^2}{2} + 2(3) = 28.5 - 0 = 28.5$   
 $9 + 4.5 + 6 = 13.5$

F)  $\int_2^3 \frac{(x+4)(x+1)}{x^2 + 5x + 4} \, dx$   $\frac{x^3}{3} + \frac{5x^2}{2} + 4x$   
 $\frac{3^3}{3} + \frac{5(3)^2}{2} + 4(3) = 43.5$   
 $\frac{2^3}{3} + \frac{5(2)^2}{2} + 4(2) = 20.67 = 22.83$

4.

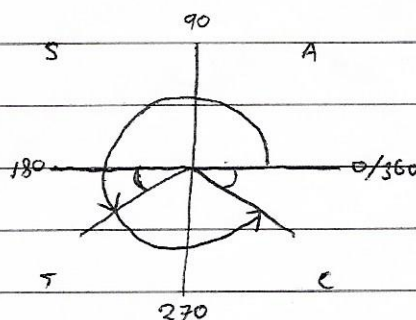
A)  $\tan x = 0.35$   
 $x = \tan^{-1}(0.35)$   
 $x = 19.29$



$x = 19.29$

$x = 180 + 19.29 = 199.29$

B)  $\sin x = -0.68$   
 $x = \sin^{-1}(0.68)$   
 $x = 42.84$



$x = 180 + 42.84 = 222.84$

$x = 360 - 42.84 = 317.16$