Question 5 Start here for Question Number: 5 a):)



V=10m3 V= 112xh 112xh=10

A=SA

h= 10-1112

A = 2112 + 2111 Show A = 2112 + 20

A=2112 +2111 (10-112)

= 2412 + 20 Ari - 27 (3

= 2 T = +20 Ar

A=ZT12+30

11) 27112 + 20 1 VI 120 VI 1-20 VI 1-2

1/2 = 4+ 40r

(= 18.12.65 (2dp) >0 >0 = minimum

. . r=12.65 mminum occurs

b):) seizet seex tanx = All Irsnx

Horac see'x = tenx tenx = Sonx

Now

seex tenx = 1

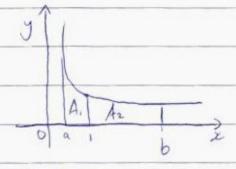
: , & see2x + seex tenx = WM 1+ smx

11) Po seiz + seix + 402 = 1-5hx

Lence - : See + secretar = T-show

-(:)	1年		doc
	16	1-sinx	0,50
	(F4	sina do	
-) -	sina as	~

$$= \cos \frac{1}{\sqrt{2}} - 1$$



$$A$$
, and $Az = Iunit^2$

A, and
$$Az = |u_n|^2$$

$$\int_a^b \frac{1}{x}$$

$$= (\log x)_a^b = (\log x)_b^b$$

$$= \log |u_n|^2 - \log x$$

$$= \log b - \log x$$