Sample 2 Start here for Question Number: 5 V= Jar24 as V= 10 Luce 70 = xx 24 : as A = 2x12 + Zx14 Sub 1- 6 A: ?xx2 + Zxx (xxx) = 15c12+20 ii) A= 22/2, 20 dA: 420 = 20 d2 = 4x + 40 . A has a min. value as die is >0 for all valles (as the equator is ulipositive and I must be postre as a neg. terythis nearingless. i - mir value occus when dA . o · 4nr - 70 = 0 4x13-20=0

4 mr 3 = 20
$\int_{-3}^{3} = \frac{\Gamma}{J\kappa}$
7: 3/E
: 1,17m (d.p.)
b) ;) CHS: Sec x + sec x tona
i Secre
Cos 3 + asx · rosx
1 SINX
1 11 Sikx
(05 2 X
= RHS
ii) OS Sec 3x + sec >c tenox = cosx
Cris: 12 sinx
1-5in?x
= (1+3/52)
(15/27) (1-5/4×)
= 1 1-sinze
111) - So 1- sing dx
= 54 Sec x 1 Sec x fanse dx
$iii) = \int_{0}^{\frac{\pi}{2}} \frac{1}{1 - \sin x} dx$ $= \int_{0}^{\frac{\pi}{2}} \frac{1}{\sin x} + \sec x \int_{0}^{\frac{\pi}{2}} \frac{1}{4} dx$ Additional writing space on book page
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	Sample 2
= (ton(4 / + sec(2)) - (tun(0) sec(0))	
= 1+ /2 - 0.1	
: 1+ 1/2	
= 2+JZ unit	
2 4017	
ed).	
$C) A_1 + A_2 = A_1$	
= Zunts Z	
i. Az = \(\frac{1}{5c} + \int \frac{5}{x} \) dx	
Ja sc J, x	
: A. J. 2 0x	Az = 5, 5 dx
J a	1: [Max] "
1: [1,x]'	1 = 1 n b - 0
	e=6
1: -1na	
-a= te	
a: -e	