De Hus. A BECA
IB Mathematics Applications 1 December 2020 Finde Exam May V= TT (3.1) = (11.4) = 344.174... & 344 cm³ b) SA = 277 (3.1) + 2(3.1) TT (11.4) = 748.7294.... ~ 749 Cm2 = 282.4291... \(\gamma \gamm tan A = 110/tan 25 7° 10 7 00 de de tan 0 = 110 = 85 9979 ... 895.878 ... de = 110/692 85 15° 415.383 ... 410, 5255 ... liff = \$ 895.871 m - 45.333 .. 410,5255 ... = 485, 353... × 485 m

SOLUTIONS 7 = 24 5/2/00 = 12.18511... (3 s.f.) 4) 0) Cos 0 = 1452 + 1552-1202 2(145)(155) 145 120 = 0,681868 ... 155 B = Cos (0,6818...) = 47.6/0/53... a 47.0 b) A= = (145) (155) sin 47.01015... = 8219,945,11 \$ 8220 m2

Sow mis

b)
$$V = \frac{1}{2}(7)(7) \sin 60^6 \times 10$$

= 212.1762...
 $\frac{1}{2}$ $\cos^3 2$

Solivons 5.35-+, 65 1.7721875... 1.77 RB = 1 + 1 = 1.78302468... Re = 1.816358 ... = 1.8277439... = 1.83 a) 1.77 E R TOT < 1.83 (1.55%)

70 ELLOR, = 1.77-1.80 0 1.66 \$ 1.67%.

1.80 (negatio) (1.54%) 20 €, = /1.83-1.80/ _ 1.60 × 1.67 ± 1.67%, ± 139, ± 1.54, ± 1.55

SOLUMS

8)
$$A = \frac{1}{2} (70)(250) \sin 65$$

= 7930, 193... 40

$$A_{sect} = \pi (70)^{2} \times \frac{65}{360}$$

$$= 2779.436...$$

