5.) Volum sylinder = Tr V(r, h) = Tr 2 h THOTTAH, his his ho DV = TT (r+ Ar)2 (h+ Ah) - TTr2h = TT (r2 + 2r Ar + Ar2) (h+Ah) -TT r2h =TI (r2h+r2sh+ 2rarsh+ 2rarsh + sr2h + sr2 sh) - Tr2h = T1 (r2h+r2 sh+ 2rsth) - T1r3h butter. = 271 - h A + + 17 - sh alle 2 de = 37 AT + 34 Ah som w D. D. Pali/ so sma vor Der liter. Est: AV= Endring i V totalt ~ momentain endring endring i V pgu endring aur oya endring au ih Dr + 2 V Sh 0

A: DV=V(T+Ar,h+Ah)-V(r,h) $\approx VV(r,h) - (\Delta r, \Delta h)$ 100 LA = 2 V Ar + 2 V Ah = 2Trh Ar + TTr 3h Sylinder: rE[2, 2.05]; Ar=0,05 he [5, 5.05]; Ah = - "-Usibleshet i Volum: AV = 211 · 2 · 5 · 0.05 + 11 2 · 0.05 = 0.05 (2011 + 411) $= 2477 \frac{1}{20} = \frac{6}{5}TT$ Anxatt usible that i volum = 5 TI m