Assignment Solve, I = Side by using both snorpson's } deviding the domain into and 3/8 rule by 6 equal devisions. Grent het 7/6= = = > > > > 8/6 3/6 = 8/8 = 32 10/6 to/6 = 6 = by 1/6 1/6 = 6-3 By simpson /2 rule (2 de = 1 (30+36+ 4 (8+33+85) +2 (82+34)) = = (1+1)+4(=+=+6)+2(=+6) = 18 (3+24 (7+3+11)+ 12 (8+6)] $=\frac{1}{18}\left[\frac{3}{2}+\frac{24(39+77+63)}{789211}+12\frac{(18)}{80}\right]$ $=\frac{1}{6}\int_{2}^{1}+\frac{8\times239}{2\times9\times11}+\frac{72}{20}$ = = [0.5+0.0] = 4.10

(2 dx = 0.6913 Nove, By simpson's 3/8 rule 5 = dre = 3h (30+3e) + 3(4+83+ 30+3e) + 2(83)] -3x/6 (4+2)+3(6+6+6+6)+(2x6) = 16/3+18(1+8+10+11)+4] = to [1.5+ 18(880+770+616+560)+133 = 16 [2.833+ 8.2577] $=\frac{1091}{16}=0.693$ the x-orals the area between the x-oxils the lines x20 and x=1 and a curve through the points with the following co ordinates. 0,00 100 0.9891 0-25 0.3083 6806 a SLICA 1,00 0 0,8410 Estimate the volume of the solid formed Ahre Snogson's Brule.

Volume of elemental cylinder, dV= 178°dbe 2. Volume of solid, V= Sav = Savedre Now, we have, h=0.25 0.00 6-25 020 1.00 880E.0 882E.0 288E.0 0.97930 0.91948 (0.82609) -. Volume, 1= 5 782 dx = 7 5 82 dx Now, By snopson's frale $V = \pi \times \frac{h}{3} (30134) + 4 (81733) + 2 (82)$ 27x0.25 (1.00+0.70812)+4 (0.97930+0.8269) +2(0.91948) $= \frac{3.142\times0.25}{7} \left[1.70812 + 7.22156 + 1.83896 \right]$ 0.26183 × 10.76864 2.8195