Tailor 6.4 cb/ scratch  $3x^2 - 1 = 2P_2$ (233 = (C3 2" - Y") p(\$") d3x" P3/107=0 = p ((3x120501-r12) d3x1 = p(211) \ r4 (30030'-1) sinb'do'dr = 201 R5 5 (30030'-1) sing dol  $= \frac{2\pi P}{5} R^{5} \int (3x^{2}-1) dx = \frac{2\pi P}{5} R^{5} \left[ x^{3}-x \right]^{1}$ = 471 PR5 Recall P= -mu =7 Q33 = -mu 4th R\$2 1 ( cos 0 + cos 0 ') = 3cos b ( = sin b ) - sin b ' # [-10530'+COSO'] = -3(05°0' (55401) \*-5in 0' [-(05°0') + (056)] = 3(050'-1 (STNO') =[-(-1)+(-1)]=1-1 T+1/-7Judeson Get Scratch + (322-112) dp(2) d3x1 = p (3/26/56/- 1/2) d3r/ S(31251201054-12) p ntynt y das 2 2ti = p(2-0) \ r \ [3 (0526'-1] sinb'dr'db' P S (3 x2 57426-1/2) = P(2-11) 1 p5 5 (3cos 0'-1) sinb' do'  $= 2\pi p R^{5} \int (3x^{2} - 1) dx$ 5 \$\\ \( \langle \) \( \langle = J[3×+2] 1~  $= 2\pi \rho$   $= 2\pi \rho$  = X - X - X $\frac{(1-1)-(-1-(-1))}{=[-x+2]} = \frac{2\pi p}{5} R^5 \left[ (1-1)-[-1)-1 \right]$ 20-60  $= \{-(-1)\}$   $= 2\pi p$   $= 2\pi p$   $= 2\pi p$ = 411PRS mw4 5 1282 C2 R3 = 47 -mw 1282 Troping of RAR 4 7 3 F MWR