Planar (ANGLE) Length I to Rading Lalong circum-TT = 3.14/59..Shadow or pro Total angle around $\theta = \frac{AC}{OA} = \frac{AB}{OA} \frac{G88}{OA}$ a point P 180° = 360° angle $0 = \frac{ARC}{RADIUS}$ = 2TT rad Arc = langle xradius radius E Arc = Total Arc = E Angle xradius V constant circumference = (EAngle) X radius circle circle About a point OR any closed 2TT radian curve loop. with Corntant distance from a fixed point = 2TT × radius ciramferece of circle

U1 -4-6

(SOLID ANGLE) 3D Total aug Ce around a point = 4TT Sterad-LEOR Are In GENERAL I Area << P2 Solidangle = 1 Area R2 to break arbitrary surface into small spherecal sections to calculate Small I to add for I Area = Solid augle X R 2 finel total El Area = Sofial Angle XR2 51 Area = (5 Salid Angle) XR2
sphere) Radius Constrat for sphere 4TT Steradian Area ob = 4TTR2/ Sphere Ex Solid Angle(1) of a come of angle(0)

Ex (0)=TT (1- Cos 8) Proof by integration. Easy verification $\Omega(0) = 0$ $\Omega(\frac{\pi}{2}) = \pi$, $\Omega(\pi) = 2$ $\Omega(0) = 0$ $\Omega(\pi) = 0$ $\Omega(\pi) = 0$ $\Omega(\pi) = 0$







