PHANKH I ALZEIGÓ DIORNOEUV 1) Ani 70 avanzuftur ex= 1+ x+ x -1 + ...

proposite va reposefficele un nocourre $e^{01} = 1 + 0,1 + \frac{0,01}{9} = e^{9} = 1,105$

Enu rupos nus ex=1+x+5 Tore of = I+X-ex

fre X = 0,1 TO 0: 2007 Lie zila 0=(1+0,1+0,01+0,001+...)-11 0 < 0,006

CLUCU EX= 1 +0,1+0,005+0,000166...+ aer ex < 1,10516 ... < 1,106

22= = x + (=) + (=) = RIFIN sin F, R) + n [F] [sin F is) = n/F) (MSin(F,r)-Sin(F,r2)(re) inco $Sin(\vec{F}, \vec{r_0}) = OK \over Iril$ $Sin(\vec{F}, \vec{r_0}) = OA \over Iril$ 0100 DE= n/F/(0K+01)= DE= n/F/.KA Enolousy working polar atadian Junifrans on minego eforcaran ano zo lespo eta env ormandery 2003 477 d 02, TO 54/20 00040pos $(7) \vec{A} = (\vec{n} \cdot \vec{A}) \cdot \hat{n} + (\vec{n} \times \vec{A}) \times \hat{n}$ => A = InllAlcos (n,A) n + Inl·lAlsin (n,A) 2 × n onos ê zo hovobrous condero ous aninedo zeu À, À kai inl=1

 $αρα = A = |A| cos (n, A) \hat{n} + |A| sin (n, A) |c||n| sin (c, n) \hat{α}$ σίπου \hat{a} το Lιαναδιανό κουθέτο σιο επίπεδο τω \hat{c} \hat{n} αρα το \hat{a} ομετιπεδο $(e co \hat{a}, \hat{n})$ μαι |c| = |n| = 1 και sin(c, n) = 1 ακαι $\hat{c} \perp \hat{n}$ αρα $\hat{A} = |A| cos(n, A) \hat{n} + |A| sin(n, A) \hat{\alpha}$

(3) Energians sportion heriotops:
$$\int_{0}^{\infty} r = b - ct$$

(4) $\frac{1}{6} = \frac{1}{2}t$

Excule nows $\frac{1}{6} = \frac{1}{6}t^{2} = \frac{1}{6}t^{2} + r^{2} + r^{2$



Edunations occupar activa R P= P0-01

BI) Xwpifoul = one occupor of occupations

Liofa ocoix grow dm=pdV 7=> dm=(po-ar)472dr ofres doix. Garon du = 4112 dr

depor Morp = Somp, = Sp. 4712 dr - 147013 dr = 47100 R3 47100 R4

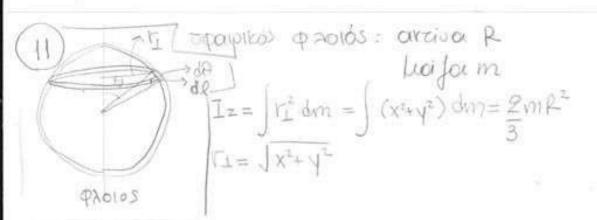
Moy= 17 R3 (4Po-30LR)

βz) In= = 3 M σ 2 Fq and α) dlq= 2 dm +2

ones on = (A-dr)4912 dr anoli)

 $I_{op} = \int_{0}^{R} dI_{p_{3}} = \int_{0}^{R} (p_{0} - \alpha r) \frac{8\pi r^{4}}{3} dr = \int_{0}^{R} \frac{8\pi p_{0} r^{4}}{3} \left(\frac{8\pi \alpha r_{0}^{5}}{3} + \frac{8\pi p_{0} R^{5}}{3} + \frac{$

IOG = 8785 (P = OR)



Agou
$$\rho_s = \frac{m}{s} \Rightarrow dm_s = \rho_s ds_{\sigma}$$
 7

inou del = R.d. $\Rightarrow dm = \rho_s 2\pi \Gamma_L R.dS$

representation door. $2\pi \Gamma_L$

Aprel
$$dI_{5} = \rho_{5} 2\pi \Gamma_{1}^{3} R d\theta$$
 $J \Rightarrow dI_{5} = \rho_{5} 2\pi R^{4} (\sin \theta)^{3} d\theta$

convert $\Gamma_{L} = R \sin \theta$

Enolitions
$$I_{qA} = \int_{0}^{q} dI_{5} = 2\pi p_{5} R^{4} \int_{0}^{q} (\sin \theta)^{3} d\theta$$

$$I_{qA} = \frac{8\pi p_{5} R^{4}}{3} \longrightarrow I_{qA} = \frac{2\pi R^{2}}{3}$$

$$\text{enoù } p_{5} = \frac{m}{4\pi R^{2}}$$