VCX, Y) C gi=doencwe) xn = r cos (0) Yn = rsen (0) 4 UXL, YL OCE) Yri = dcostwer + resolwes = (d cos2(we) - 2dr cos(we) cos(0) + x2cos (0) + x2sen (0) 2dr sen (we) sen (0) + d2sen 2(we) 1/12 11 7 (d++ x2 - 2 dx (cos (we) cos (0) + sentwe) sento)) + V d 2+x 2-2+(+) d cos (Ø + w f) 1 * cos(x-y) = cosx cosy + sinx sny PY = MY Po = morz U =-mgh 1 = M V 2 Y = 1000 (0) 1 + 100000) 7 1 = (rco)(0) + rc-sen(0)(0)+ + (rsinco)+rco)(0)(0)) $r^{2} = r^{2}(\phi) + 2r^{2}(-\cos\phi)\cos(\phi) + r^{2}\sin^{2}(\phi) + 2r^{2}\sin^{2}(\phi)\cos(\phi) + r^{2}\cos^{2}(\phi) + r^$ F 2 = F2 + 8 0 2 = M (+2+ +202) 0 = - mah = - 5 mmt - 1 5 mm, L= m(r2+1202)+/6mm7 + 6mmL H = Pr + + Pa 0 - L m12 + mr202 = / Emm7 + Emm4) H= Pr2 r2 + P02 -H = 2Pr2r2 + 2Po2 + m2r2r2 - m2r202 - / 5mm; + 5mm



