























Where Mx = S} x S(x,y) dA My = )} y S(x,y) dA For a Lamina with a control dentity, the centre of grove of also cuted the centrold Note that the is essentially the Same as finding the cente or more of an abject with not unition mus distribur Exemple Compile mail and centre of gravity of lumina install cont ard with denly  $\delta(ky) = x^2 ty^2$ Solution Mall Is given by M= Sh (x2 kg)da = 520 1 p2 p416 X-component U given by  $X = \frac{2}{17} \int_{0}^{217} \int_{0}^{17} p(\omega) \theta^{2} e^{2} p(p) dp$ = 2 pr first projet dodt - 27 Jan + 100 de = 2 (- m8) 2 = a Similarly 17 = 0 and therefore the centre of growy of (0,0).

Note that we could swop order or integral because the same of integral because the same of the personal of the other providences.

















