10.09.20 A AQ2 Carles L. A. Santes 5; x2+y2+2-47=0 (5: x2+y2+2y=0 0) I:  $\chi^2 + \chi^2 + Z^2 - 4Z + 4 - 4 = 0$  II:  $\chi^2 + \chi^2 + 2\chi + 3 - 3 = 0$  $\times^2 + (y+3)^2 = 1$ x2+y2+ (2-2)2=4 Windre: (x-x0)2+(y-70)2=R2 Estera: (x-x0)2+(y-y0)2+(Z-Z0)2= R2 eartro: C=(0,-1) Pontro: C=(0,0,2) Rais: 1 Knie: R = 2

b)  $1: x^2 + y^2 + z^2 - 4z = II: x^2 + y^2 + 2y$ 72-47 = 2Y  $x^{2}+y^{2}+2y=0$  $(7-2)^2-4=24$ x2= - y2- 2y 1 (7-2)=V2Y+4  $x = \frac{1}{2} \sqrt{-y^2 - 2y}$ 7-2 = V2y+4 Z=+V2Y+4 +2 : micket X(t)= + \ - +2-2+  $\int_{1}^{2\pi} (t) = \pm (\sqrt{-t^2-2t}) \hat{i} + (t) \hat{j} \pm (\sqrt{2t+4} + 2) \hat{k}$ (+) = (x'(+))î + (y'(+))î + (z'(+))ñ  $X(t) = (-t^2 - 3.t)^{1/2}$  Y(t) = 1  $Z'(t) = (2t+4)^{1/2} + 2$  $x'(t) = \frac{1}{2}(-t^2-2t)^{\frac{1}{2}-3}.(-2t-2)$ 7(+)= 1/2(2+4)/2(2)+0 2V2+4 7'(+)= = /  $\int_{-1}^{1} (t) = \pm \left( -t - 1 \right)$   $\sqrt{-t^2 - 2t}$