6. Compuseti doua oscilatii commil jerjendiculoil. Doduceti forma elipticei a traiectoriei in carul Recontelor egale. Comentati formele specifice ale elipsei, in functie de farele initiale. $\begin{cases} x = A\cos(\omega t + \alpha) \\ y = B\cos(\omega t + \beta) \end{cases}$ =) \ \frac{x}{A} = \sin cot cos \times + \cos \cot \sin \times \ \ \cos \times \ \ =) B= sincot cospt cosot sing I cosox =) $\frac{1}{A} \times \frac{1}{A} \times \frac{1}{B} \times \frac$ The sin cot cosx + coscot sinx | sin B =)

B = sincot cos B + coscot sin B | sin a =) =) x sing - y sinx = sin wt. sin (Bx) 1 x cos B - x cos x = - cos cot sin (B-x) (x sin B - \frac{1}{B} sin \alpha = sin \alpha t. sin (B-\alpha) $=) \begin{cases} \frac{X}{A^2} \cos^2 \beta - \frac{2X}{AB} \cos \alpha \cos \beta + \frac{3}{B^2} \cos \alpha - \cos \alpha t \sin \beta \alpha \end{cases}$ 2 Ain B - 2xy sinx sin B + 3 sin & - sin wt sin (Bx) $= \frac{2 \times 3}{A^2} \cos (\beta - \alpha) + \frac{3}{B^2} = Ain^2(\beta - \alpha)$ a) $B-x=24\pi$ 4eH==> A - B = 0 => 4 = B · X

