

System at rest (i.e Schin)

when work done by Serce = Senergy in springs

by cosine rule

Let k= spring constant
=1

Nen "My Mingle base" \frac{1}{2}(2\Pi-\theta)^2 + \frac{1}{2}\theta^2

is JZ-20080 with initial energy

50 WD = > (2- \(\sigma \) - 2(056) or \(\frac{1}{2}\Pi^2 + \frac{1}{2}\Pi^2 = \Pi^2\)

i. Serviso

= \frac{1}{2}(211-4)3/+ \frac{1}{2}6^2 - TT2

 $\frac{1}{2} \left(2 - \sqrt{2 - 2\cos 6} \right) = \frac{1}{2} \left(2\pi - 6 \right)^2 + \frac{1}{2} \theta^2 - \pi^2$

à Sol2, i.e let

F(X,61: X[2-J2-26056) +112 - 2(217-612-162 +112 50 2-40 is 0=0