

Find Da (how much spring compresses)

In a system, the charge in energy of the whole system is O.

So I can write $\Delta E = O$. $O = \Delta E_K + \Delta U_9 + \Delta U_{Spring} + \Delta U_{spring}$ or $W_{\text{ext}} = \Delta E_K + \Delta U_9 + \Delta U_{spring}$ EXI $O = \frac{1}{2} - mgh + \frac{1}{2}h\Delta z^2 + M_K mgd$

 $\frac{mgh-\mu_{\kappa}mgd}{2\left(\frac{mgh-\mu_{\kappa}mgd}{h}\right)} = \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$