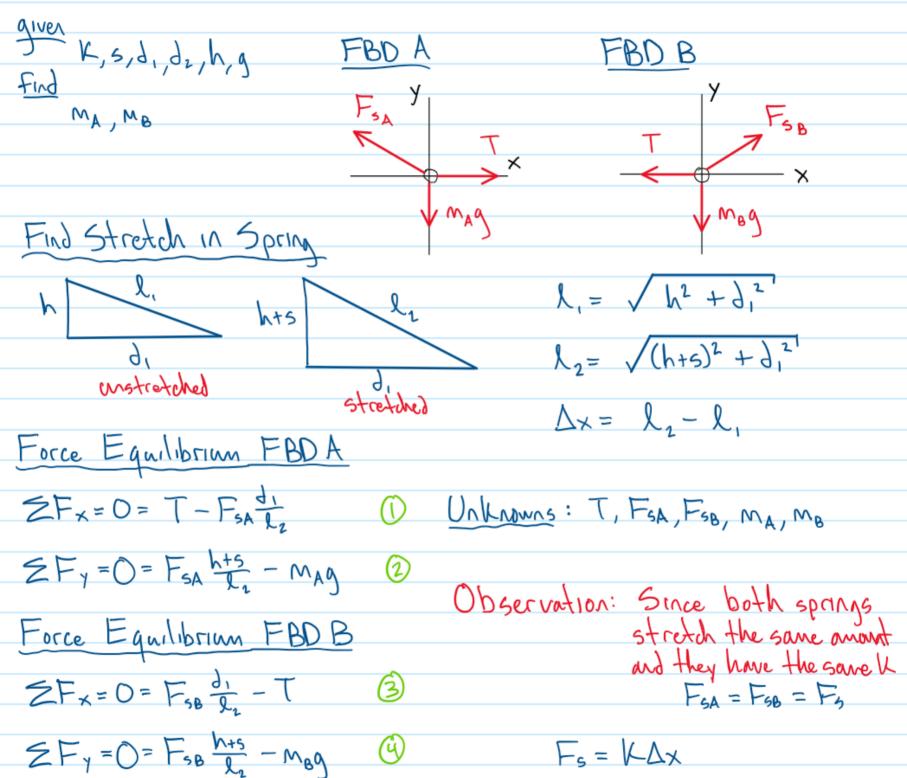


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When the two weights are attached to the netal loops (A and B), the K N/m springs lower by S=S m. If $d_1=d_1$ m, $d_2=d_2$ m, and $h=\lim_{n\to\infty}$ what is the mass of each weight?

(When the weights are removed, 5=0 m. Assume q= 9.81 m/s2)



Fs = KAX

Using Observation
$$O = T - F_s \frac{d_1}{l_2} \left(1 \right)' O = F_s \frac{h+s}{l_2} - m_{A}g \left(2 \right)' O = F_s \frac{d_1}{l_2} - T \left(3 \right)' O = F_s \frac{h+s}{l_2} - m_{B}g \left(4 \right)'$$

$$F_s = m_{A}g \frac{l_2}{h+s} \left(2 \right)''$$

$$K\Delta_x = m_{A}g \frac{l_2}{h+s}$$

$$K\Delta_x = m_{B}g \frac{l_2}{h+s}$$

$$M_A = M_B \qquad M_B = K\Delta_x(h+s)$$

$$M_A = M_B \qquad M_B = K\Delta_x(h+s)$$