Prelab Questions

These questions need to be completed before entering the lab. Please show all workings.

Marker's Initials

Prelab 1

$$T = 2\pi\sqrt{\frac{m}{k}}$$

Square both sides of the equation above. If we plot T^2 vs. m, what is the expression for the slope of this graph?

Prelab 2

An unstretched vertical spring has length of $L_1 = 7.35 \pm 0.05\ cm$. A $500.0 \pm 0.1\ g$ mass is hung on the spring which then stretches it to a length $L_2 = 12.50 \pm 0.05\ cm$. Calculate the spring constant k and its uncertainty. Show your workings.