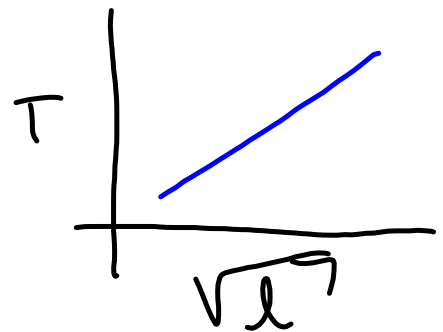
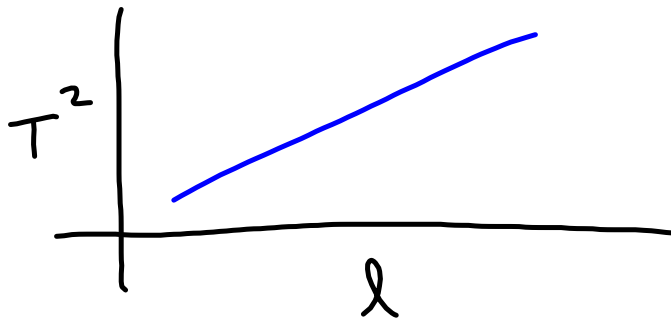
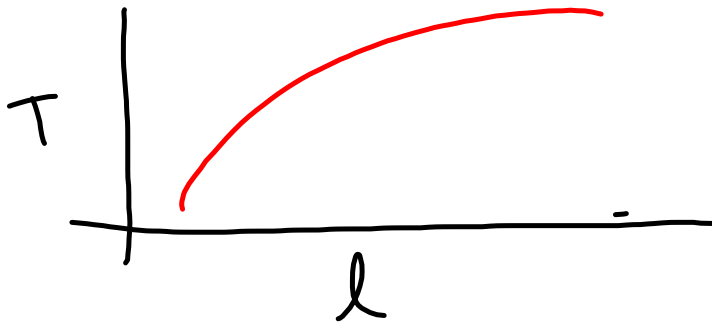
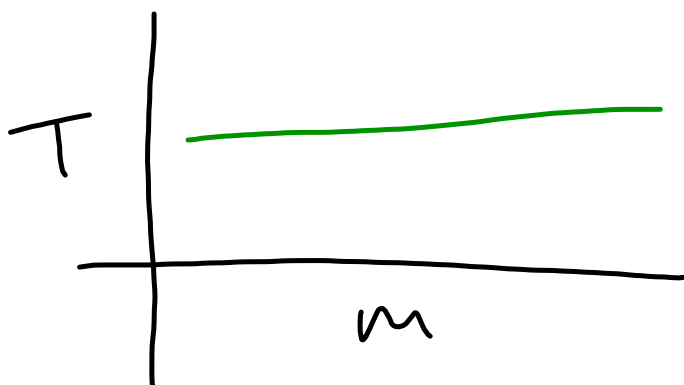


LAB - SIMPLE PENDULUM

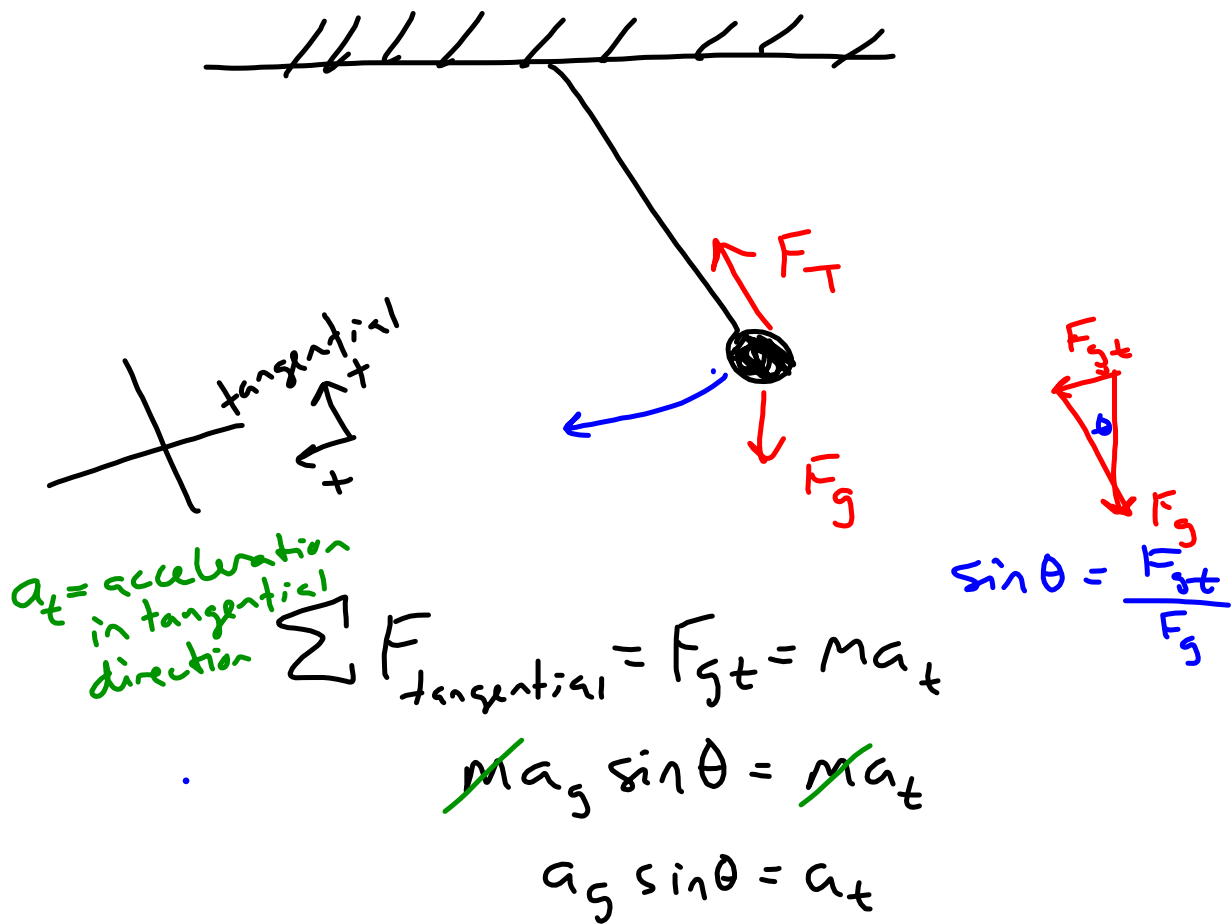
- Determine the relationship between the period and the length or mass (keep the other constant).
- Whiteboard:
 - Data and graph
 - Interpretation of graph to give relationship



$$T = 2\pi\sqrt{\frac{l}{g}}$$



Mass does
NOT affect
the period



$$\frac{d^2 x}{dt^2} = -a_g \sin \theta$$

if $\theta < 10^\circ$,
 $\theta \approx \sin \theta$

$$\frac{d^2 \theta}{dt^2} = -a_g \theta$$