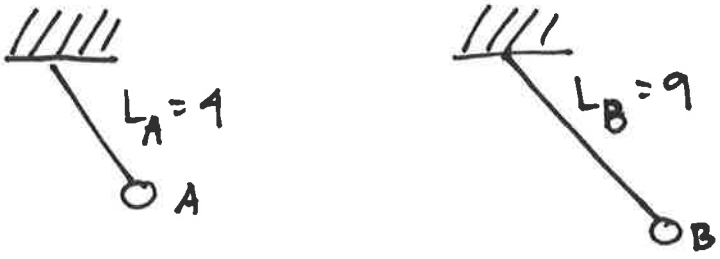
ASG v2 Ex 4.2 (Comparing pendulums)



$$\frac{L_A}{L_B} = \left(\frac{T_A}{T_B}\right)^2$$ ← according to Galileo.

So $$\frac{T_A}{T_B} = \sqrt{\frac{L_A}{L_B}} = \sqrt{\frac{4}{9}} = \frac{2}{3}$$

and $\frac{T_A}{T_B} = \frac{2}{3}$. The shorter pendulum will have the shorter period.