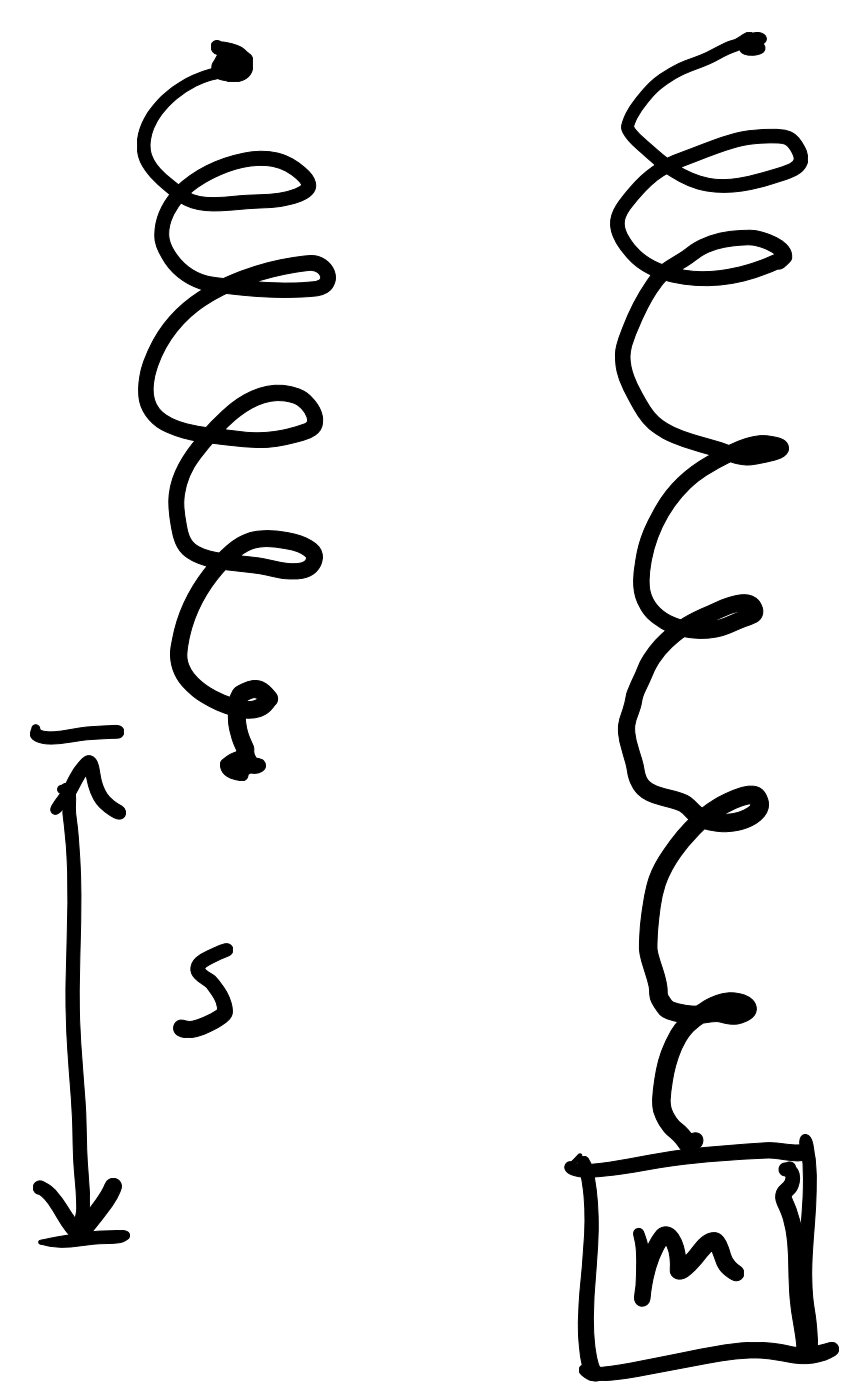


### Option 1

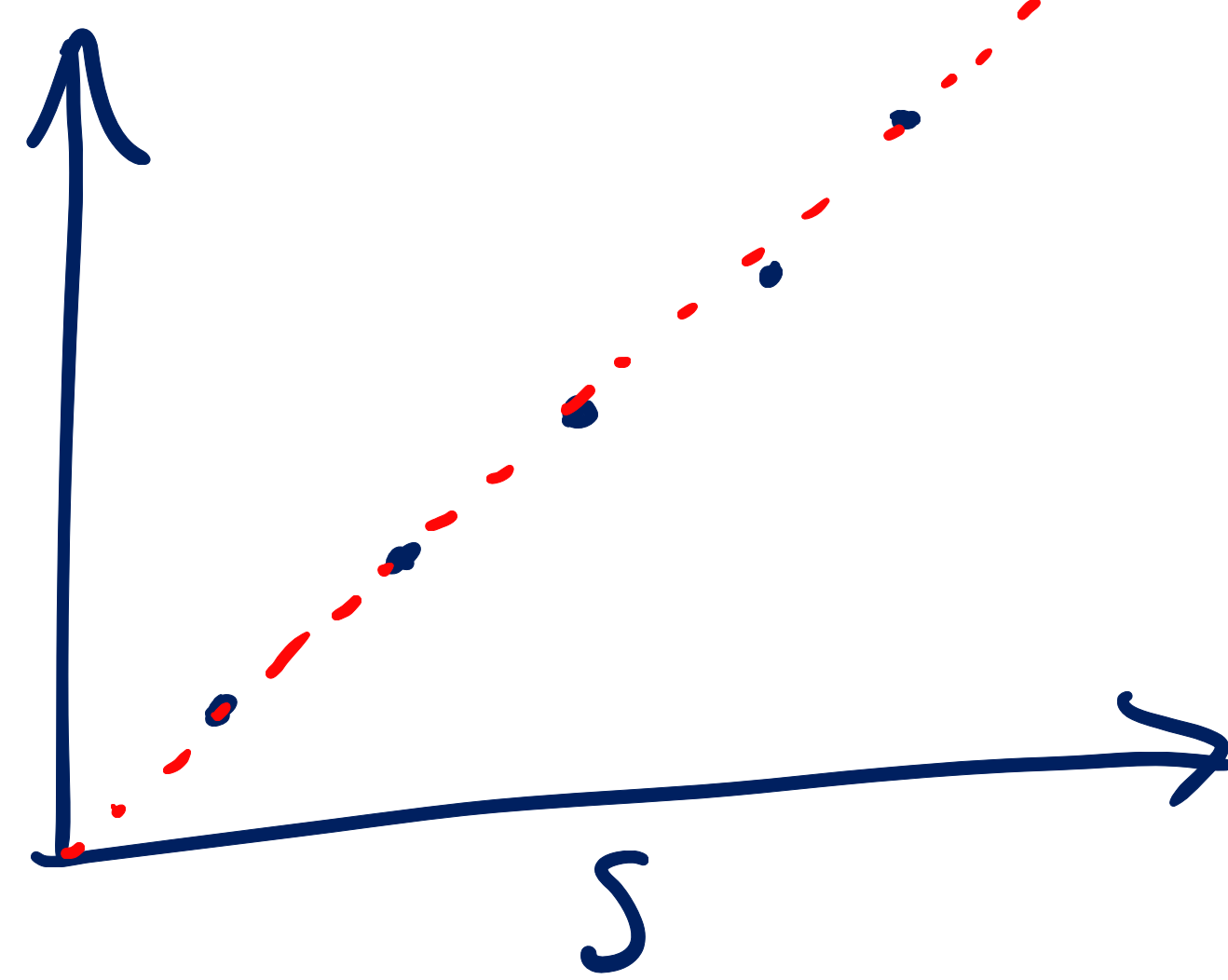


In equilibrium,  $|F_s| = |F_g|$

$$\Rightarrow mg = ks$$

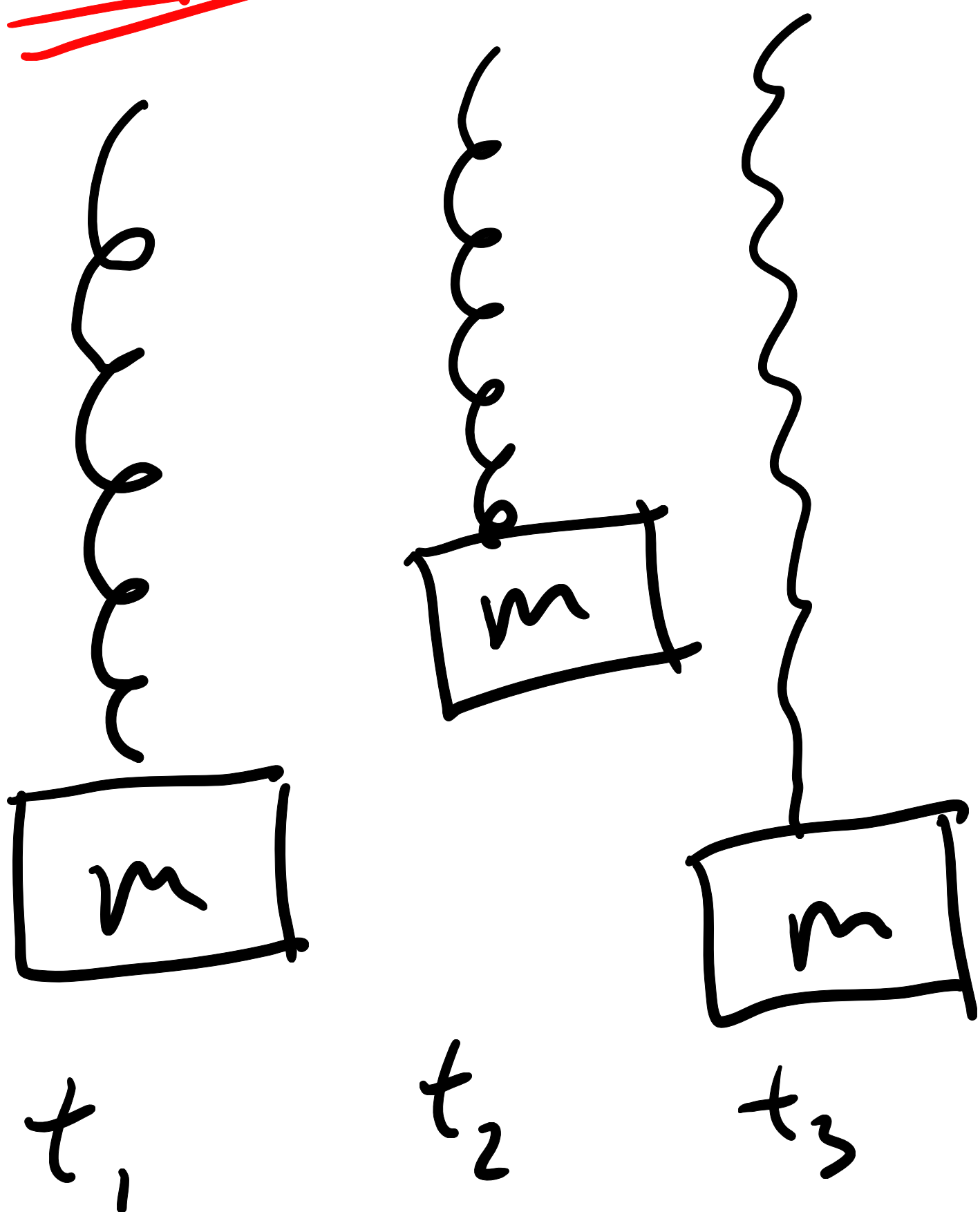
$$\Rightarrow k = \frac{mg}{s}$$

$|F_g|$



slope of best fit line  
=  $k$

### Option 2



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

$$\Rightarrow k = m \left( \frac{2\pi}{T} \right)^2$$