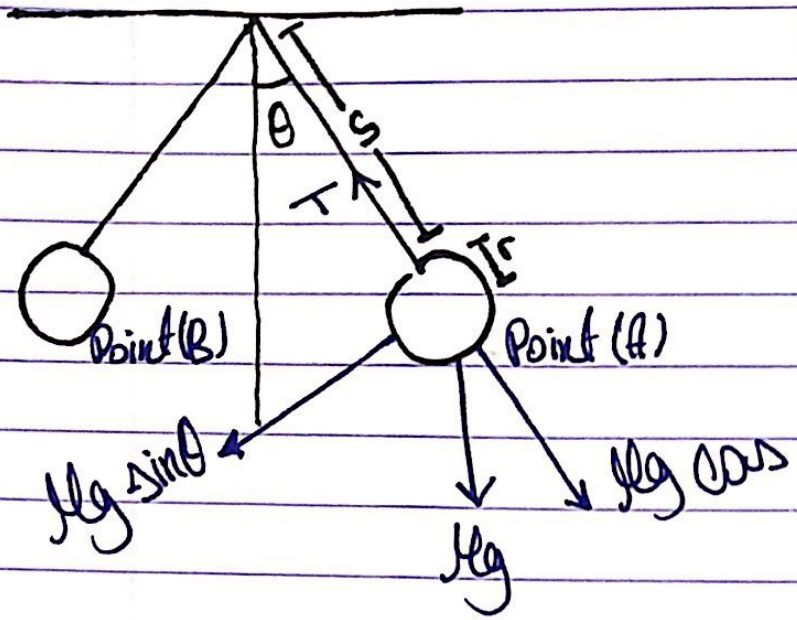
Exp 7, Measuring of gravity at BZU:



$L = S + \frac{d}{2}$ → القطر

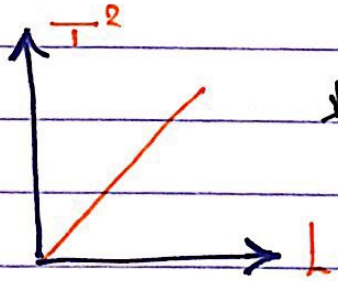
when θ is small
$\sin\theta \approx \theta$

II) T (Period) $= 2\pi\sqrt{\frac{L}{g}}$

$T^2 = \boxed{\frac{4\pi^2}{g}} \times L$

at y-axis — slope — at X-axis, $\underline{m} = \frac{4\pi^2}{g}$ (slope)

$g = \frac{4\pi^2}{m}$



* By least square fit Method *

$\frac{\Delta g}{g} = \frac{\Delta m}{m}$