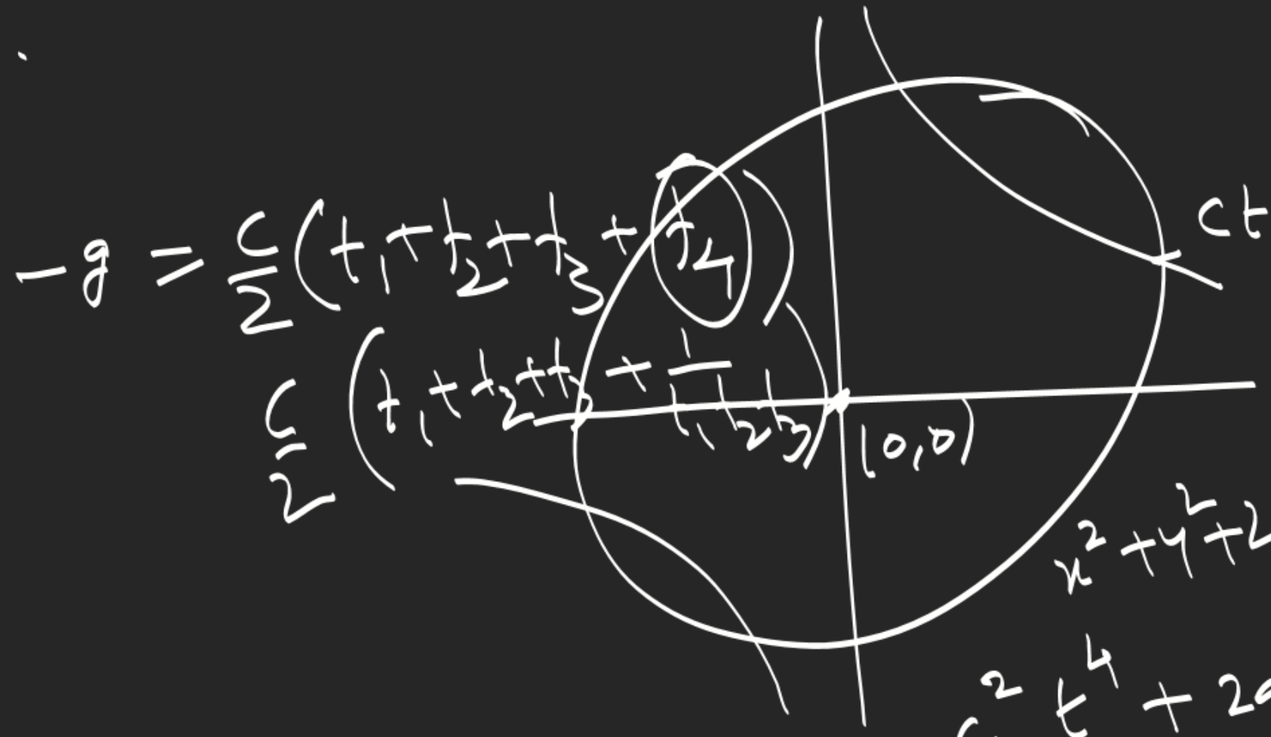
Nishant Jindal



$$-g = \frac{c}{2}\left(t_1+t_2+t_3+t_4\right)$$

$$\frac{c}{2}\left(t_1+t_2+t_3+\frac{1}{t_1t_2t_3}\right)$$

$$x^2+y^2+2gx+2fy+d=0$$

$$c^2t^4+2gct^3+dt^2+2fct+c^2=0$$

t_1, $-t_2$, t_3, t_4

$$-\frac{f}{2} = \frac{\sum x_1}{4} = \frac{c}{4}\sum t_1 = \frac{c}{4}\left(-\frac{2g}{c}\right) = -\frac{g}{2}$$

$$\frac{c}{4}\left(-\frac{2f}{c}\right) = \frac{\sum y_1}{4} = \frac{\frac{c}{4}\sum t_1}{\frac{c}{4}\sum \frac{1}{t_1}} = \frac{c}{4}\frac{\sum t_1t_2t_3}{t_1t_2t_3t_4} = \frac{c}{4}\sum t_1t_2t_3$$