

$$F=G\left(\frac{m_1m_2}{r^2}\right) G=6.674x10^{-11}$$

$$d=\sqrt{(x2-x1)^2+(y2-y1)^2}$$

$$F=6.674*10^{-11} \left(\frac{50*20}{70.174^2} \right)=1.33*10^{-11}$$

$$F\rightarrow ma\text{ or }a=\left(\frac{F}{m}\right)$$

$$v_i = v_0 + at$$