$$\vec{a} \equiv \frac{d\vec{v}}{dt}$$

$$\vec{v} \equiv \int \vec{a}\, dt$$

$$\mu = \frac{\sum_i x_i}{N}$$

$$\sigma = \sqrt{\frac{\sum_i (x_i - \mu)^2}{N-1}}$$

$$\text{time for 10 oscillations} = 5.343 \pm 0.101 \;\; \text{seconds}$$