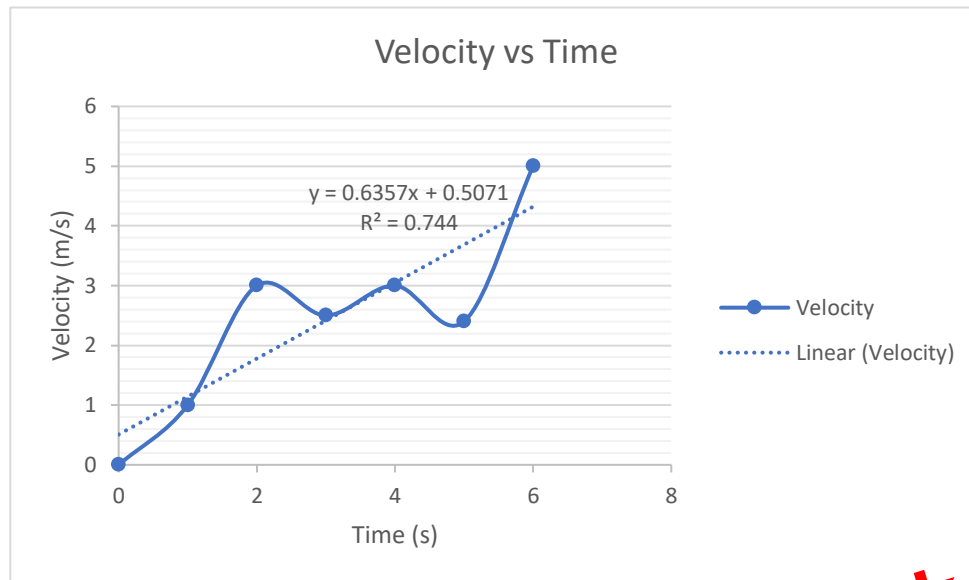


(a.)GRAPH:



(b.) From the equation: $y = 0.6357x + 0.5071 \rightarrow y = mx + b$

The slope represents a in which is equal to 0.6357.

Therefore, acceleration = $0.6357 \text{ m/s}^2 = 0.6 \text{ m/s}^2$.

Minimum slope : Since, the lowest steep is at point (5,2.4)

So the slope is from (0,0) $\rightarrow$ (5,2.4)

Therefore, the slope is $m = (2.4 - 0) / (5 - 0) = 0.48$.

Maximum slope : Since, the highest steep is at (6,5)

So the slope is from (0,0) $\rightarrow$ (2,3)

Therefore, the slope is $m = (3 - 0) / (2 - 0) = 1.5$.

So, the acceleration uncertainty is

$$(\Delta a) = (\text{max.} - \text{min.}) / 2 = (1.5 - 0.48) / 2 = 0.51 = 0.5.$$

Therefore, the acceleration uncertainty is 0.5 m/s^2 .