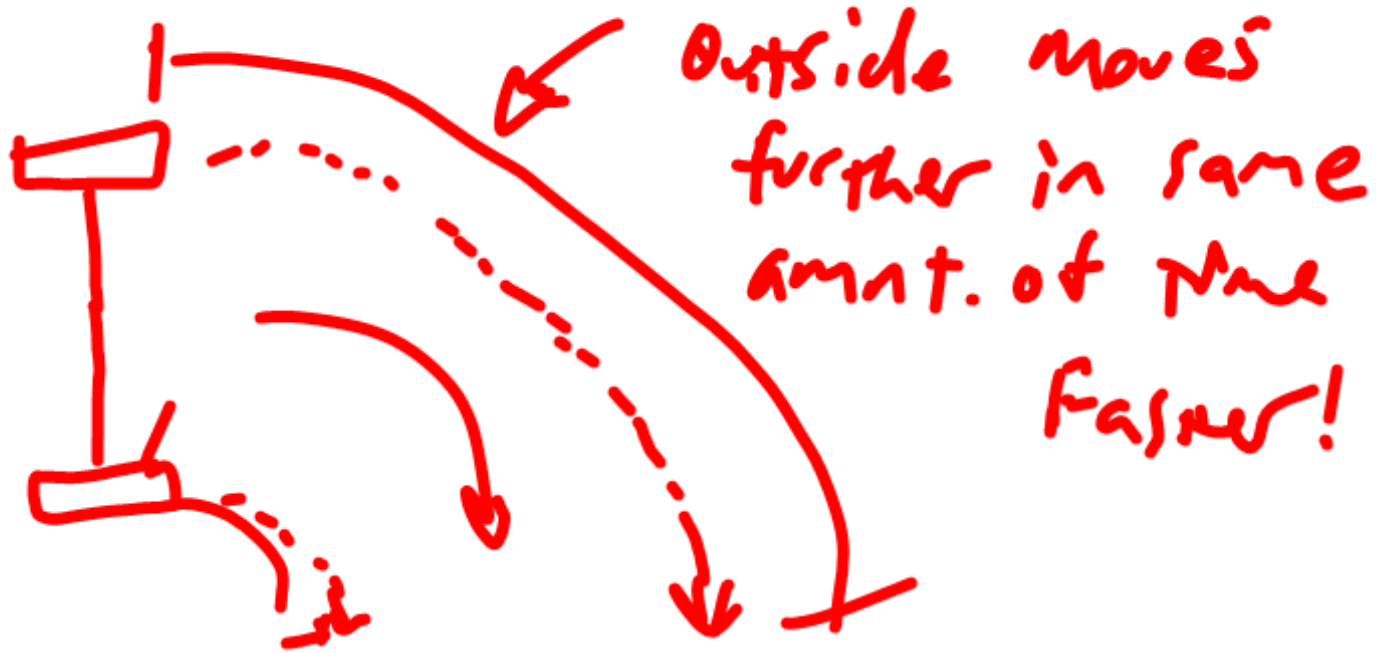


Velocity - speed in a direction

Acceleration -  $\uparrow$  speed,  $\downarrow$  speed  
 $\Delta$  direction

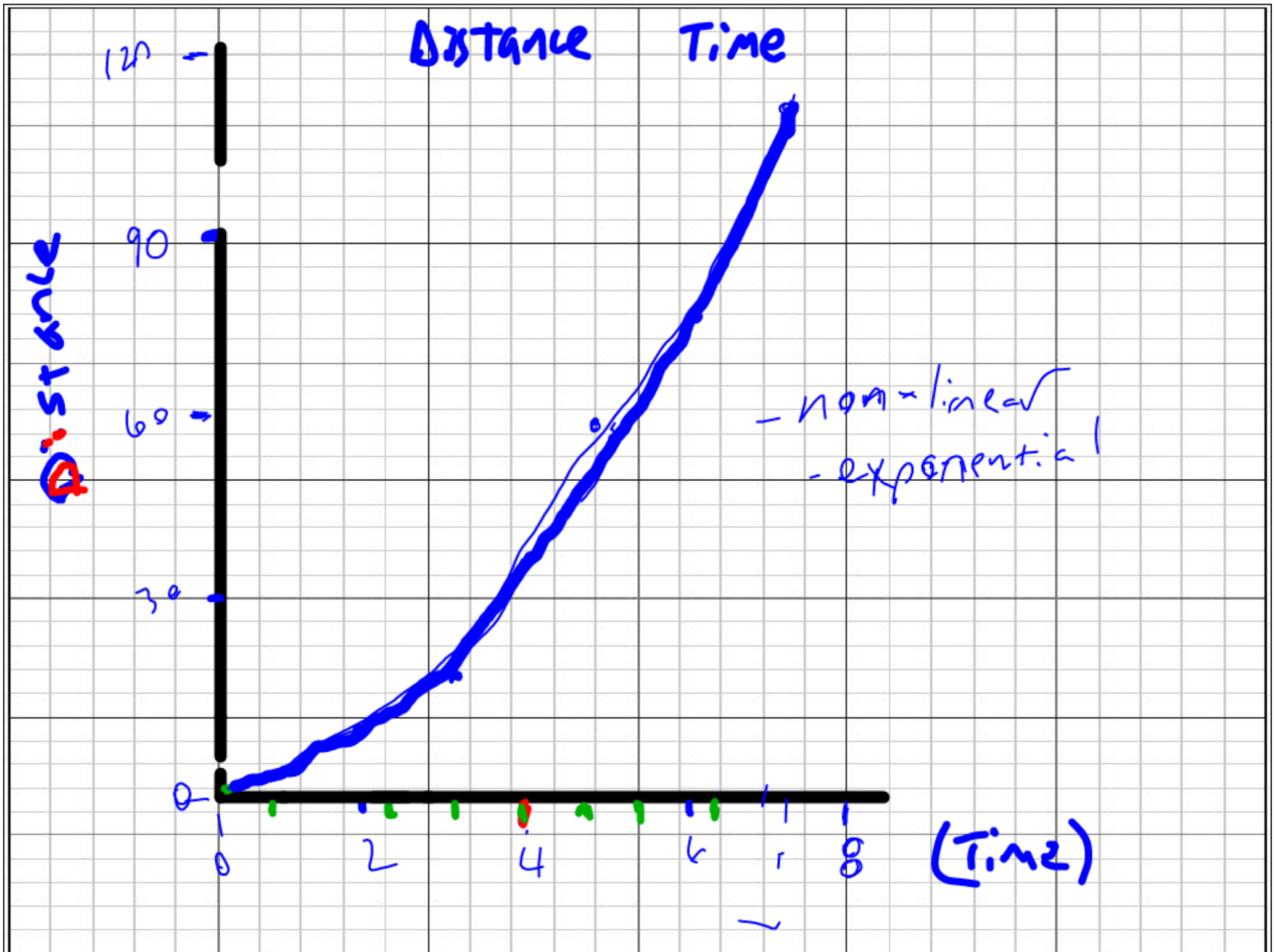


$$\text{Accel} = \frac{\text{Fin. Speed} - \text{init speed}}{\text{Time}}$$

$$\text{Accel} = \frac{40 \text{ m/s} - 0 \text{ m/s}}{5 \text{ s}} = \frac{40 \text{ m}}{5 \text{ s}}$$

$$A = 8 \frac{\text{m}}{\text{s}^2}$$

A blue circle highlights the unit  $\frac{\text{m}}{\text{s}^2}$  in the equation above. A dashed blue circle highlights the number 8.



$$\frac{8m}{2s} = \frac{F-I}{T} \frac{8-0}{2 \text{ sec.}} = \frac{4m}{1s}$$

$$\frac{4m}{5} \text{ avg.}$$

T	D
1	4m
2	12 ← 8m/5
3	24 ← 12m/5
4	40 ← 16m/5
5	60 ← 20m/5
6	84 ← 24m/5
7	112m ← 28m/5

