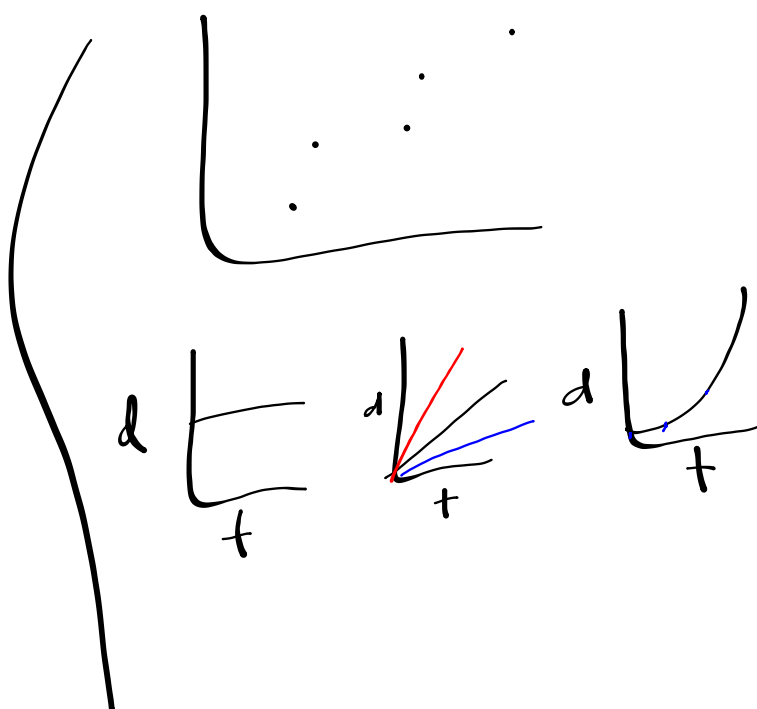


$$v = \frac{\Delta d}{\Delta t}$$

$$d = vt$$

$$t = \frac{d}{v}$$



$$a = \frac{v_2 - v_1}{\Delta t}$$

$$\textcircled{2} v_1 = 0 \text{ m/s}$$

$$\Delta t = 8.70 \text{ s}$$

$$v_2 = 9.40 \text{ m/s}$$

$$a = ?$$

$$a = \frac{v_2 - v_1}{\Delta t}$$

$$a = \frac{9.40 \text{ m/s} - 0 \text{ m/s}}{8.70 \text{ s}}$$

$$a = \frac{9.40 \text{ m/s}}{8.70 \text{ s}}$$

$$a = 1.08 \text{ m/s}^2$$

$$\textcircled{5} v_1 = 0 \text{ km/h}$$

$$v_2 = 97.8 \text{ km/h}$$

$$\Delta t = ?$$

$$a = 48.5 \text{ km/h}^2$$

$$\Delta t = \frac{v_2 - v_1}{a}$$

$$\Delta t = \frac{97.8 \text{ km/h} - 0 \text{ km/h}}{48.5 \text{ km/h}^2}$$

$$\Delta t = \frac{97.8 \text{ km/h}}{48.5 \text{ km/h}^2}$$

$$\Delta t = 2.02 \text{ h}$$