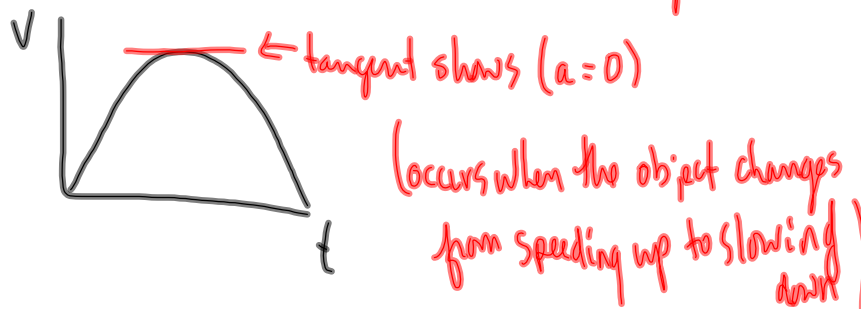
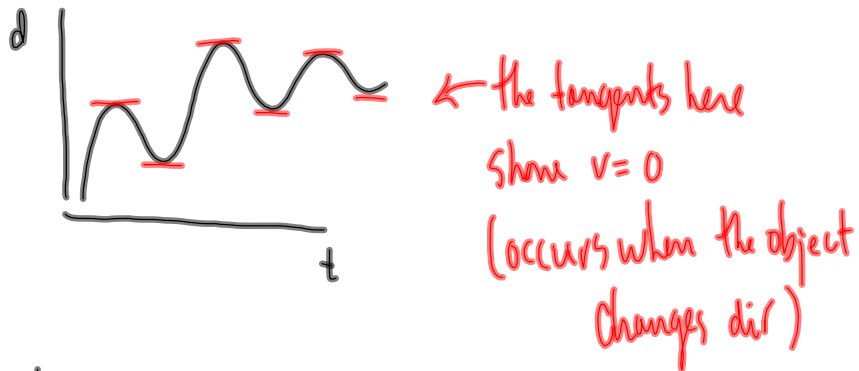
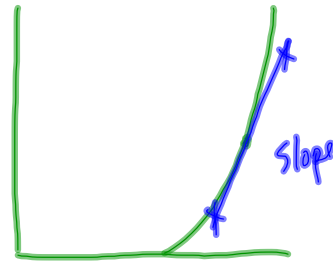
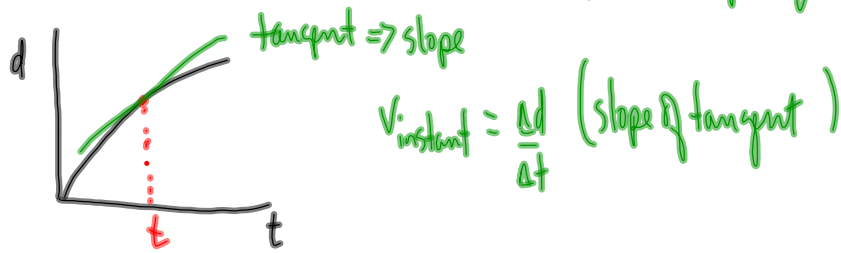
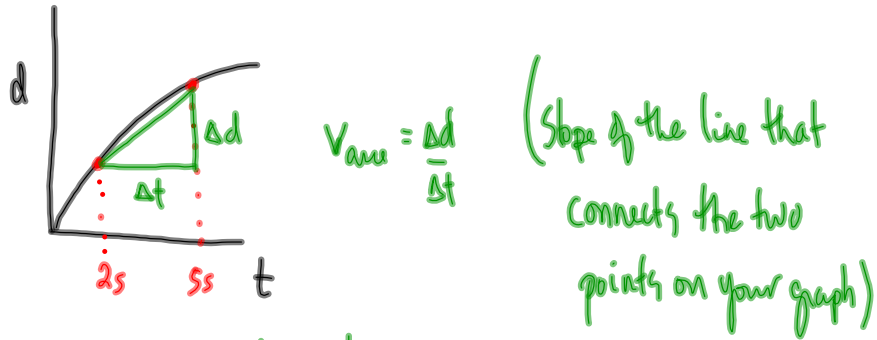
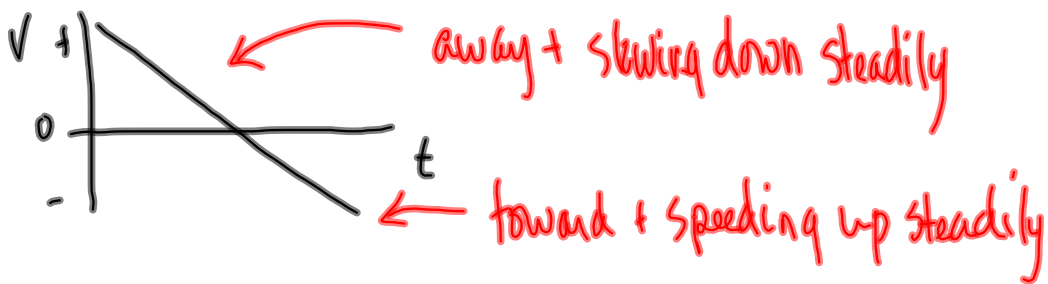
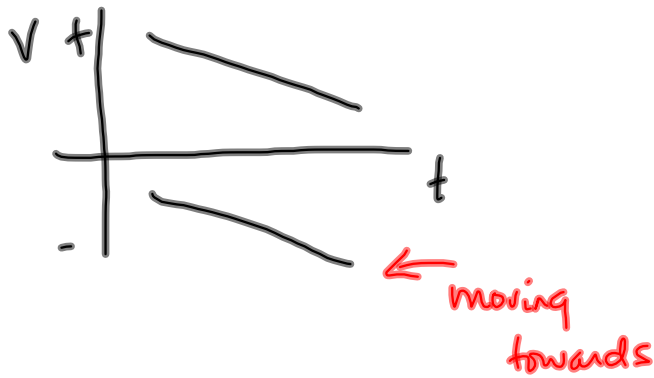


Finding Instantaneous/Average Velocity





4. $a = \frac{\Delta v}{\Delta t} \Rightarrow 15 \text{ m/s}^2$

5. $a = \frac{\Delta v}{\Delta t}$

$a \Delta t = \Delta v$

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

$\Delta t = \frac{28 - 0}{9.5}$

$\Delta t = 5.15$

c) $a = \frac{\Delta v}{\Delta t}$

$a = \frac{v_f - v_i}{\Delta t}$

$a \Delta t = v_f - v_i$

$v_i + a \Delta t = v_f$

$v_f = 8 \text{ m/s}$

2. $8.4 \times 10^4 \text{ J}$ released.

3. $Q = mc\Delta T$

$$c = \frac{Q}{(m\Delta T)}$$

$$c = \frac{3 \text{ J}}{9^\circ\text{C}}$$

$$2.59856\dots$$

4. $Q = m \Delta H_{\text{fus}}$

$$Q = 1.66 \times 10^4 \text{ J}$$

