Acceleration

$$a = \frac{\Delta V}{\Delta t} \quad \text{where: } \Delta V = V_f - V_i$$

$$a = \frac{V_f - V_i}{\Delta t}$$

To solve for V_f or V_i:

$$a\Delta t = V_f - V_i$$

V_f

$$V_i + a\Delta t = V_f$$

V_i

$$a\Delta t - V_f = -V_i$$

$$-a\Delta t + V_f = V_i$$

$$V_f - a\Delta t = V_i$$

DO NOT MEMORIZE!!

KNOW HOW to REARRANGE

Δt

$$a\Delta t = V_f - V_i$$

$$\Delta t = \frac{V_f - V_i}{a}$$

Converting $\frac{km}{h}$ to $\frac{m}{s}$!

$$?\,\frac{m}{s} = 95\frac{km}{h}\left(\frac{1000\,m}{1\,km}\right)\left(\frac{1\,h}{3600\,s}\right)$$

$$?\,\frac{m}{s} \doteq 26\ m/s$$