



Bunny (constant v)

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

$$25\text{m/s} = \frac{d}{t}$$

$$d = (25\text{m/s})t$$

Tortoise (constant a)

$$\Delta d = v_1 t + \frac{1}{2} a t^2$$

$$d = \frac{1}{2} (0.0030\text{m/s}^2) t^2$$

$$(25\text{m/s})t = (0.0015\text{m/s}^2) t^2$$

set equal to 0 \rightarrow $0 = (0.0015\text{m/s}^2) t^2 - (25\text{m/s}) t$

factor \rightarrow $0 = t (0.0015 t - 25)$

$$t = 0 \quad \text{and} \quad (0.0015\text{m/s}^2) t - 25\text{m/s} = 0$$

\vdots
 \vdots
solve for t