

$$v_0 := 40$$

Given

$$\frac{d}{dt}y(t) = v_0 - 9.8 \cdot t$$

$$y(0) = 0$$

$y := \text{odesolve}(t, 10)$

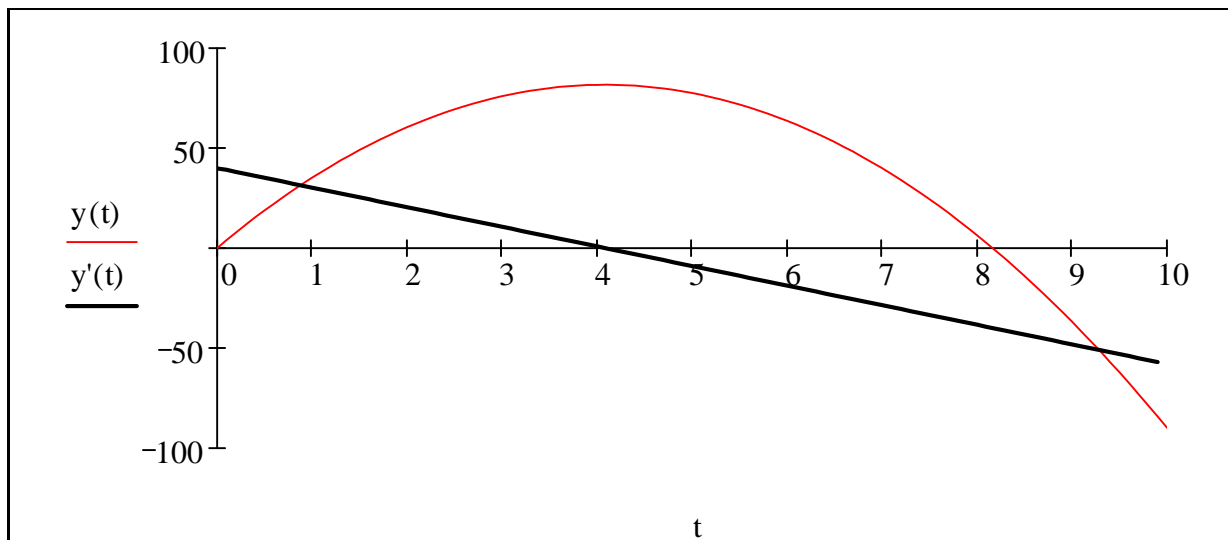
$$y(0) = 0$$

Check answer.

$$y'(t) := \frac{d}{dt}y(t)$$

$$y'(0) = 39.717$$

$$t := 0, 0.1 .. 10$$



Given

$$\frac{d^2}{dt^2}y(t) = -9.8$$

$$y(0) = 0$$

$$y'(0) = 40$$

$y := \text{odesolve}(t, 10)$

$$y(0) = 0$$

Check answer.

$$y'(t) := \frac{d}{dt}y(t)$$

$$y'(0) = 39.717$$

Check answer.

$t := 0, 0.1 .. 10$

