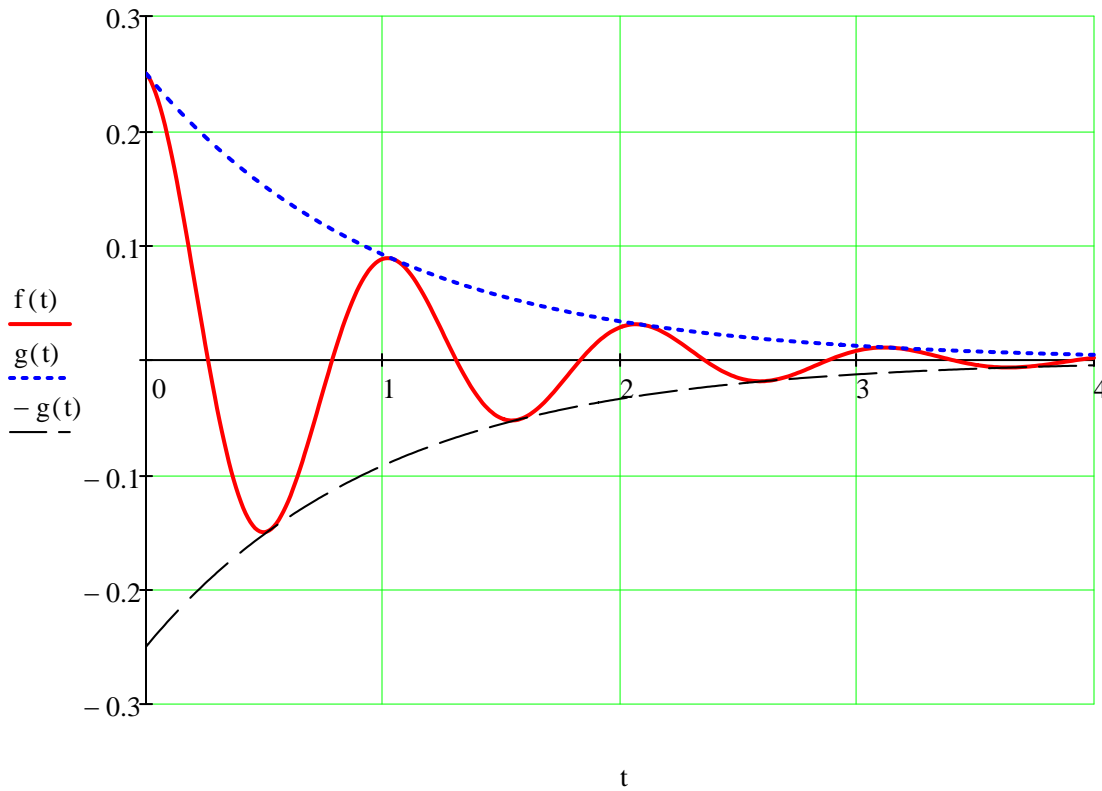


**Problem 57**

$$f(t) := \frac{1}{4} \cdot e^{-t} \cdot \cos(6 \cdot t) \quad g(t) := \frac{1}{4} \cdot e^{-t}$$

$$t := 0, .01 .. 4$$

Harmonic Decay



**Problem 58**

Some heights as a function of time (t) are shown to the right.

$$f(0) = 0.25$$

$$f\left(\frac{1}{4}\right) = 0.014$$

$$f\left(\frac{1}{2}\right) = -0.15$$

$$f(1) = 0.088$$

$$f(2) = 0.029$$