

Problem 4

In each of Problems 1 through 6, sketch the graph of the given function on the interval $t \geq 0$.

$$g(t) = f(t - 3)u_3(t), \quad \text{where } f(t) = \sin t$$

Solution

This function can be written in terms of the more familiar Heaviside function, $H(t)$, which is defined to be 1 if $t > 0$ and 0 if $t < 0$.

$$g(t) = \sin(t - 3)H(t - 3)$$

