

Problem 1

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

$$g(t) = u_1(t) + 2u_3(t) - 6u_4(t)$$

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 $t < 0$.

$$g(t) = H(t - 1) + 2H(t - 3) - 6H(t - 4)$$

