## **Unit Step Response: Post-initial Conditions**

**Quiz:** Consider the equation

$$\dot{v} + kv = u(t)$$

with rest initial conditions,  $v(0^-) = 0$ .

For the solution v(t) what is  $\dot{v}(0^+)$ ?

Think about your answer and then look at the choices.

MIT OpenCourseWare http://ocw.mit.edu

18.03SC Differential Equations Fall 2011

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.