## Quiz 8 Sample

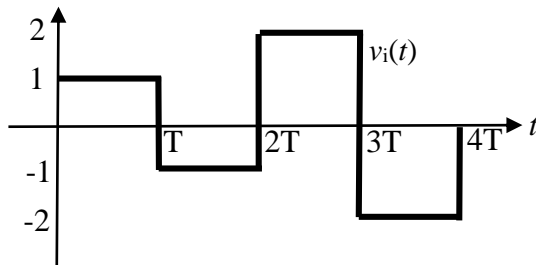*Rules*: Closed book. Closed notes. No Calculator. Do not cheat. Do not panic.
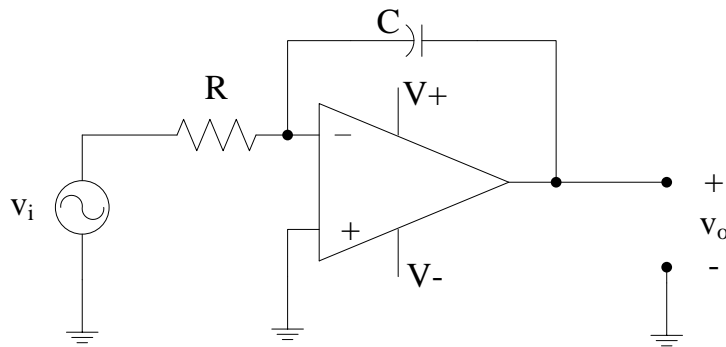


a) Fill in the blank: Theoretically, the output voltage of an inverting integrator shown above is given by

$$v_o(t) = v_o(0) + \boxed{\phantom{xx}} \int_0^t v_i(\tau)\, d\tau.$$

b) Consider $v_i(t)$ plotted below. Its value changes every T seconds.



Suppose $v_o(0) = 0$ and T = RC. Plot $v_o(t)$