

**Concept Question 5-25:** If  $v_s(t)$  is the input signal to a two-stage op-amp circuit with the first stage being an integrator with  $R_1C_1 = 0.01$  and the second stage being a differentiator with  $R_2C_2 = 0.01$ , under what circumstances will the output waveform  $v_{out}(t)$  be the same or different from  $v_s(t)$ ?

They will be the same if there is no clipping in either operation.