

1.) 
$$H(s) = \frac{V_{out}(s)}{V_{in}(s)}$$

2.) Find impulse response 
$$h(t) \left( \frac{1}{s+a} = e^{-at} \right)$$

1.) 
$$V_{out}(s) = 260nF = \frac{1}{280s}$$

$$H(s) = \frac{1}{250S} = \frac{1}{S(50)(250) + 1} = \frac{1}{12500S + 1}$$

2.) 
$$h(t) = 12,500c^{-t}$$