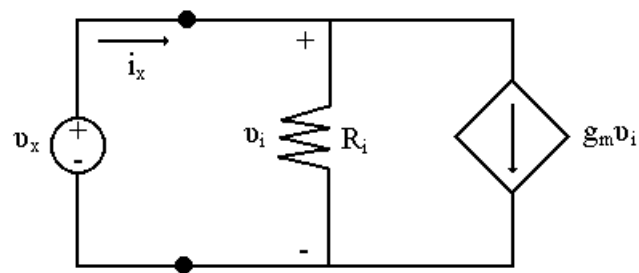


1.17



Από το σχήμα προκύπτει:

$$i_x = \frac{v_i}{R_i} + g_m v_i = v_i \left( \frac{1}{R_i} + g_m \right) \quad (1)$$

Όμως είναι  $v_i = v_x$  οπότε:

$$R_m = \frac{v_x}{i_x} = \frac{v_i}{i_x} = \frac{v_i}{v_i \left( \frac{1}{R_i} + g_m \right)} = \frac{1}{\frac{1}{R_i} + g_m} = \frac{R_i}{1 + g_m R_i} \quad (2)$$