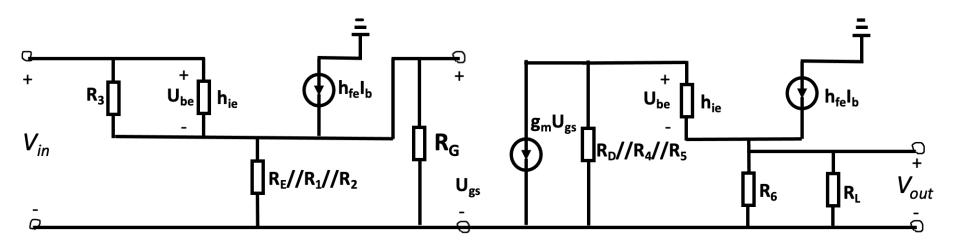


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Calculate the output voltage V_{out} if $V_{in} = sin(10^3 t)$.

Given:

$$\begin{split} R_1 &= 10 \ k\Omega, R_2 = 10 \ k\Omega, R_3 = 10 \ k\Omega, R_4 = 20 \ k\Omega, R_5 = 68 \ k\Omega, R_6 = 330 \ \Omega \\ R_E &= 1 \ k\Omega, RG = 1 \ M\Omega, R_L = 50 \ \Omega, RD = 1.2 \ k\Omega, R_S = 131.5 \ \Omega \\ E &= 12 \ V \\ V_p &= -3.5 V \\ g_m &= 3 mS \\ h_{ie} &= 2 \ k\Omega \\ h_{fe} &= 100 \\ B &= 100 \\ I_{CQ} &= 4.6 \ mA \\ U_{CE} &= 7.3 \ V \\ I_{DQ} &= 6 mA \\ U_{DSQ} &= 4 V \end{split}$$



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