1. Given that $R_2 = 100\, \text{K}$, $R_5 = 100\, \text{K}$, $R_6 = 10\, \text{K}$, $R_7 = 100\, \text{K}$, $R_L = 0.5\, \text{K}$, and $V_{cc} = 12\, \text{V}$, find the bias voltage at pin 2 of the op amp.

2. Redraw the circuit using the DC model.

3. Redraw the circuit using the midband AC model.

4. What load is seen by $V_{in}$ for midband frequencies?

5. If $V_{in} = 1\, \text{V}$ at a frequency of 1 kHz, sketch the approximate output waveform?