

Homework 8 – Applications with OpAmp

Design and size an inverting amplifier operated from a single power supply, knowing that:

$$V_{PS} = 15 \text{ V}, A_{v, dc} = 1, A_{v, ac} = -10$$

For the proposed schematic:

- What is the expression $v_o(v_i)$?
- Draw the VTC $v_o(v_i)$.
- Plot $v_i(t)$ and $v_o(t)$ for $v_i(t) = 0.2\sin\omega t$ [V].