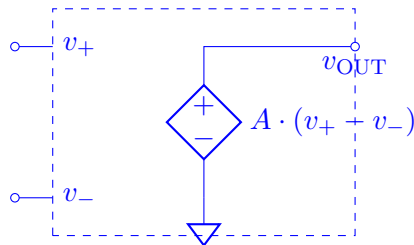


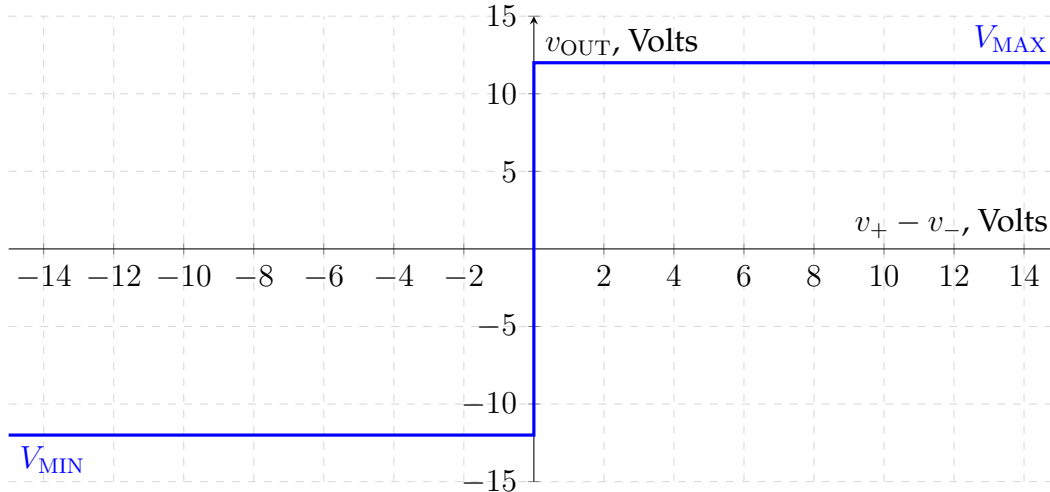
Name: _____

All responses that show effort receive full credit, regardless of score.

1. Draw and clearly label the dependent source model of an unsaturated op-amp in the space provided below.

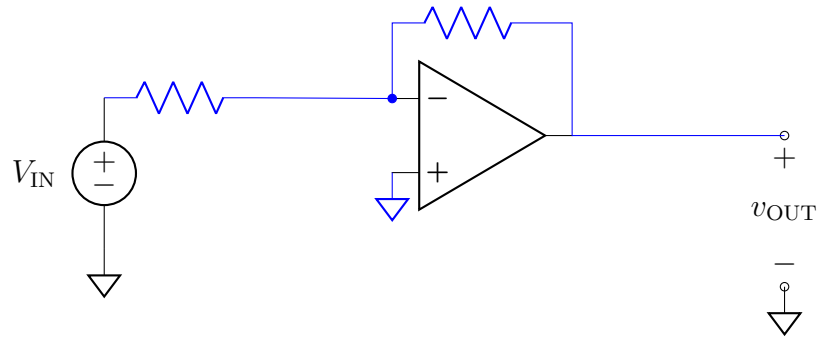


2. Sketch and clearly label the approximate v_{OUT} vs. $v_+ - v_-$ relation for an op-amp on the axes below. Assume the op-amp's output range is $-12V$ to $+12V$ and the units shown are all in volts.

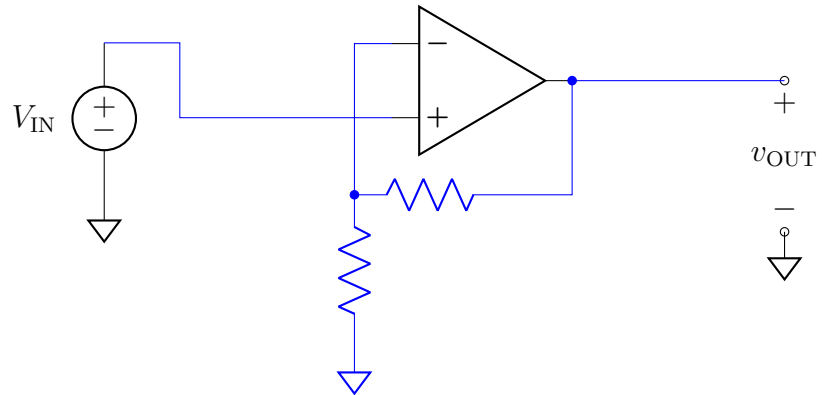


3. Complete the schematic to create either a non-inverting amplifier (from lab 5 or lecture 6a) or an inverting amplifier (from recitation 6). Indicate which you chose.

Inverting Op-amp



Non-Inverting Op-amp



Note: 4-way cross does not have a dot, i.e. not connected