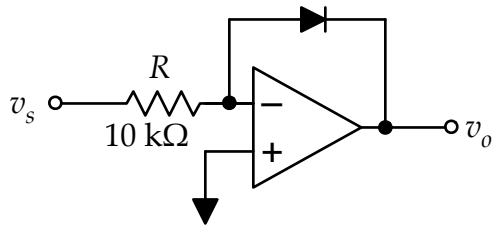
EE 201 — HW 8.8 Name_____

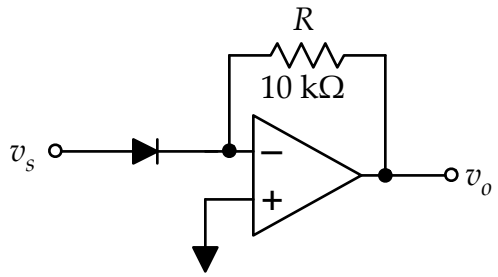
Calculate v_o as a function of v_s for the diode/op-amp circuits shown. In each case, the op-amp is ideal, the diode has scale factor $I_S = 10^{-14}$ A, and the circuit is operating at room temperature. Note that you must use the exponential *i-v* relationship for the diode. (The on-off model of the diodes will *not* describe the operation of the circuit.)

A.



v_o = _____

B.



v_o = _____

Write your answers — and whatever work will fit — on this sheet. Staple any sheets with additional work behind.