Special Problem 3.3-9

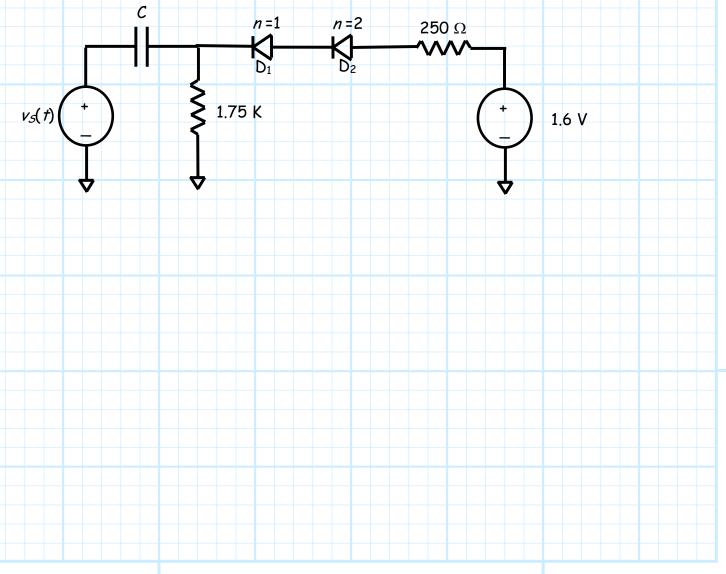
The voltage source at the **left** of the circuit below produces a **small** a.c. **signal** $v_s(t)$.

The junction diode D_1 has an ideality factor of n = 1.0

The junction diode D_2 has an ideality factor of n = 2.0

The capacitor in the circuit is extremely large (i.e., a DC open, but an AC "short"!)

Determine the small-signal voltage across each diode, in terms of small-signal voltage source $v_s(t)$.



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