

Special Problem 3.3 -17

The current source of the circuit has a DC value of 10.14 mA.

The voltage source is a small-signal source $v_s(t)$, and results in a small-signal current $i_s(t)$.

The diodes are p-n junction diodes, with ideality factors shown in the circuit. **Both diodes are forward biased in this circuit.**

1) Find the ratio $v_s(t)/i_s(t)$.

Hint: Note that the ratio $v_s(t)/i_s(t)$ is in units of resistance .

