

Special Problem 3.3-1

A piecewise linear diode model uses an offset voltage of $V_{D0} = 0.6 \text{ V}$. If a voltage of 0.7 V is placed across this diode model, a current of $I_D = 1 \text{ mA}$ results.

1. Determine the value of resistor r_d in this PWL model.
2. Use this diode model in the circuit given below to find the voltage V_o and current I .

