ECE 3355 – ELECTRONICS

HOMEWORK #7

Sedra and Smith 7th Ed. Chapter 4: Problems 4.3, 4.4 (a), (b), (c), (d), (f), (k), 4.9, 4.10, 4.42, 4.43

Problems E7.1, E7.2 (see below)

E7.1: Repeat Problems 4.9, but solve using a piecewise linear diode model, with *Vf* = 0.6[V], *rd* = 1[kΩ], and *Is* = 100[µA].

E7.2: Repeat Problems 4.10, but solve using a piecewise linear diode model, with *Vf* = 0.6[V], *rd* = 1[kΩ], and *Is* = 100[µA].

Numerical Solutions:

4.3) Solution not shown here

4.4) *solutions not shown here.*

The sketches are not shown here.

4.9) *solutions not shown here*

4.10) *solutions not shown here.*

4.42) solutions not shown here

4.43) solutions not shown here

7.1) solutions not shown here

7.2) solutions not shown here