ECE 3355 – ELECTRONICS

HOMEWORK #9

Sedra and Smith 8th Ed. Chapter 6: Problems 6.28, 6.29, 6.66, 6.67

Problems E9.1, E9.2 (see below)

E9.1: Find the dc bias values for these transistors. In other words, find *VB, VC, VE, IB, IC, and IE*. Assume *b* = 300.

1.  b) 

c)  d) 

E9.2: Frind the dc bias values for these transistors. In other words, find *VB, VC, VE, IB, IC, and IE*. Assume *b* = 150. Assume that the diodes can be modeled with a piecewise linear diode model with *Is* = 0, *Vf* = 0.7[V], and *rd* = 0.

1.  b) 

c) 