

Quiz for Lesson 16

Oct. 15, 2015

Electronic Circuits 1

Prof. Woo-Young Choi

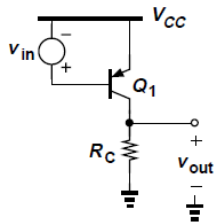
Name: _____ Student ID: _____

Prob. 1

Draw the large signal model of a PNP transistor in the forward active region having a PN junction and a current source. What is the expression for the current supplied by the current source? Do not include the Early effect.

Prob. 2

Determine the expression of the small-signal voltage gain for the following transistor circuit assuming the transistor is in the forward active region. Include the Early effect.



Prob. 3

Determine the expression of the small-signal voltage gain for the following circuit assuming Q_1 and Q_2 are in the forward active region. Do not include the Early effect.

