Special Problem 4.10-2

Determine the values of resistors $R_1$, $R_2$, $R_c$, $R_E$ so that:

a) the collector current is 1.0 mA

b) the DC emitter voltage is $V_E = 2.3$ V

c) current $I_1 = 0.5 I_c$

b) the small-signal output shown on the next page is as large as possible (i.e., the value $a$ is as large as possible) without distortion.

Hint: This is a DC bias problem, no small-signal analysis is required.

Look on next page to see output signal!!
Note this is the small-signal output signal.

\[ v_o(t) \]

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SP 4.10-2

2/2