Special Problem 4.10-2
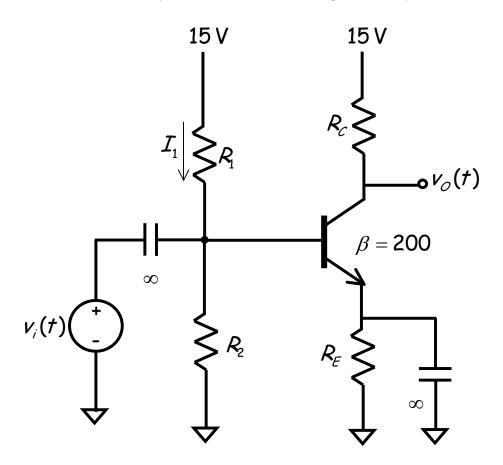
Determine the **values** of resistors R_1, R_2, R_C, R_E so that:

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 **ouput** signal.