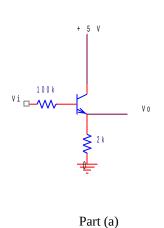
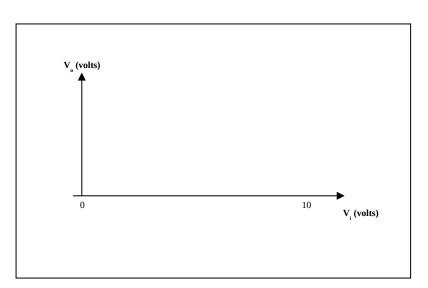
Sample Test 3

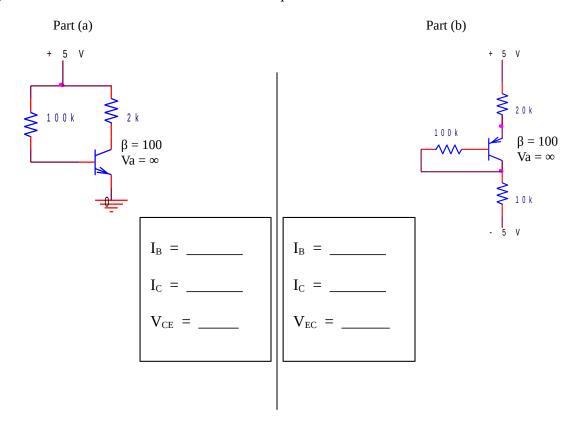
For all problems assume (1) $V_{BE(ON)} = V_{EB(ON)} = 0.7$ volts, (2) $V_{CE(SAT)} = V_{EC(SAT)} = 0.2$ volts

- **Q1** For the transistor circuit shown,
 - a) (4)Sketch the transfer characteristic V_i vs. V_o for $0 < V_i < 10$ volts. Use the graph axes supplied. Assume β =100, V_A = ∞ .





Q2 For the circuits shown find the indicated quantities.



Sample Test 3

For all problems assume (1) $V_{BE(ON)} = V_{EB(ON)} = 0.7$ volts, (2) $V_{CE(SAT)} = V_{EC(SAT)} = 0.2$ volts

Q3 The circuit shown is called a complementary push-pull amplifier stage. For the input (Vi) shown <u>sketch</u> the corresponding output (**Vo**).

