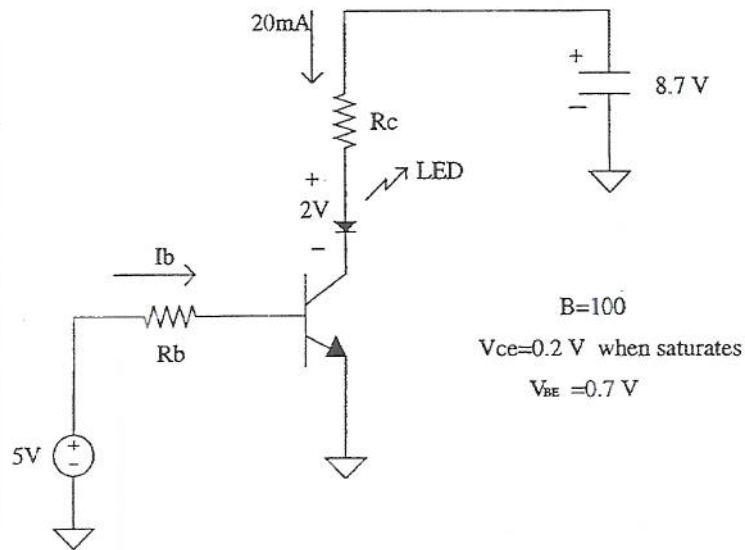


21. For the circuit below, I_B must be 0.5mA to insure saturation. The LED must have 20mA of current through it to light properly. When illuminated, the LED has 2V across it as shown. Determine:

- a) R_b
- b) R_c



$$R_b = 8600\Omega$$

$$R_c = 325\Omega$$