QUIZ NO. 1

The npn BJT transistor shown has the parameter of $\beta_F = 100$. Assume that $V_{BEQ} = 0.6V$.

a.) Assume the BJT transistor is in the forward active region and find the value of $R_E$ that gives a collector current of $1mA$.

b.) What value of $R_C$ will cause the base-collector junction to have zero volts (i.e., enter the saturation region for a BJT)?