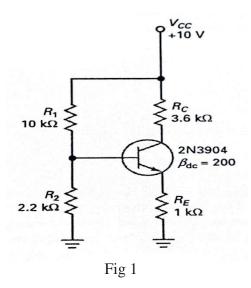
Ministry of Higher Education		
Higher Institute for Engineering and Technology at El-Manzala		
First semester: 2023/2024	وَزَارَةُ التعليم العالَى	Level: 1
Department: Electronic Engineering.		Level. I
Sheet No. (4)		Code: COM313
Course title: Fundamental of electronics	Examiner: Dr. Mohamed Abdel Rahman	

Question (1):

For the following amplifier circuit shown in figure 1, Calculate the following:

- a) The voltage of V_{B} , V_{C} , V_{E} , V_{CE} and operating point.
- b) The DC input power.



Question (2):

In figure 2 ,Calculate the values of R_1 , R_2 , R_E and RC when β_{dc} = 250, I_C = 10 mA

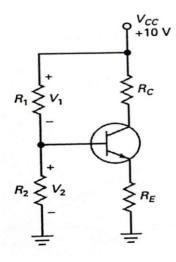


Fig 2

Question (3):

In figure 3 ,What is the collector voltage if emitter resistor is increased to 1.8 k Ω .

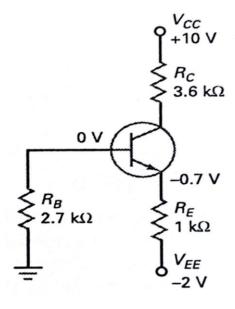


Fig 3