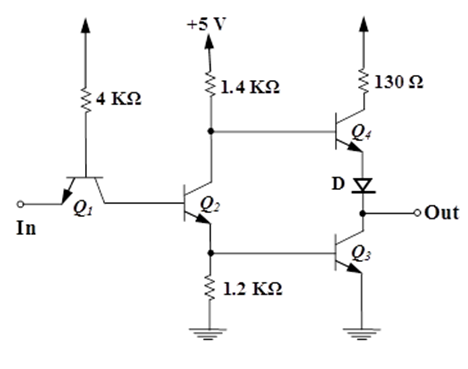
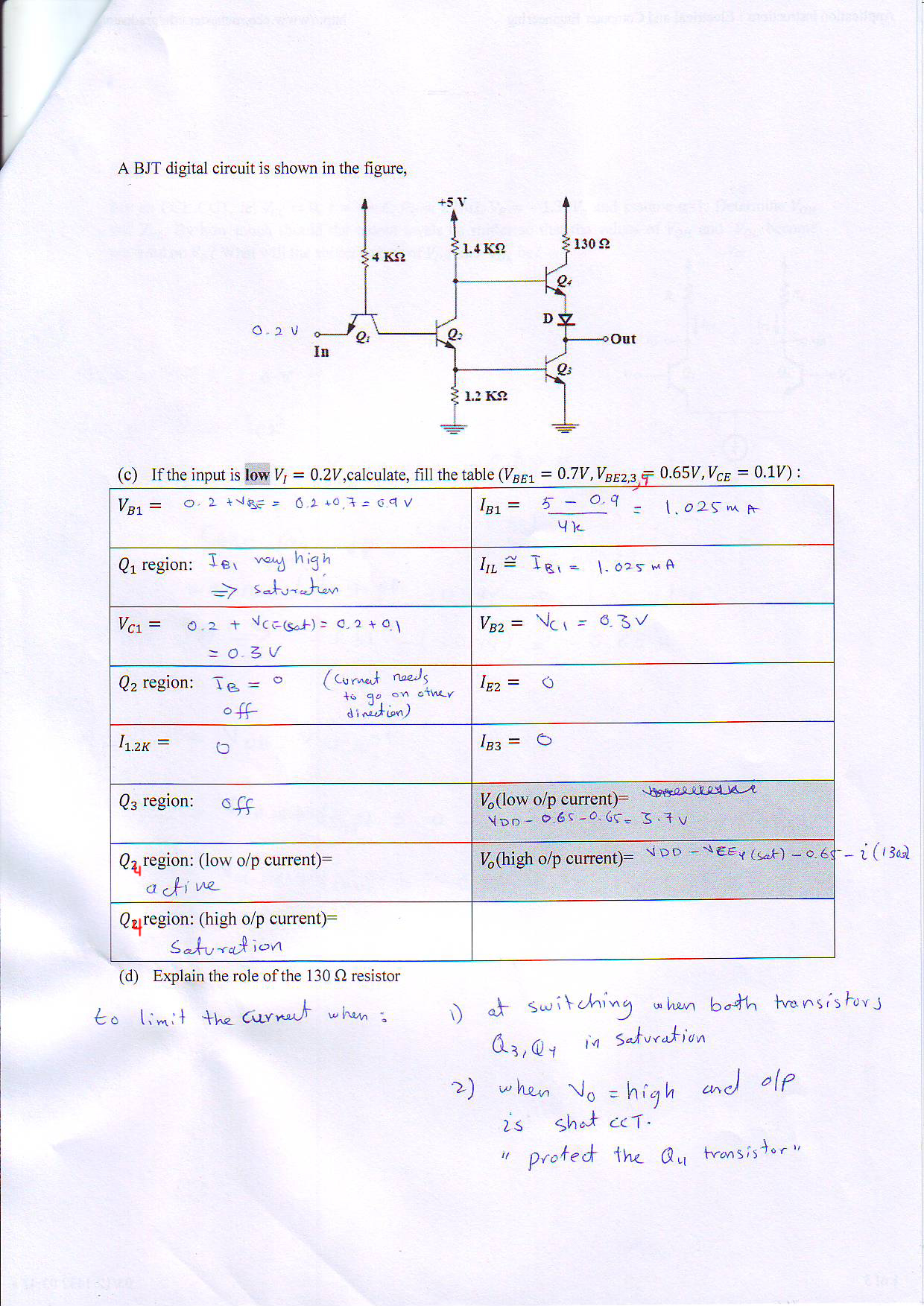
A BJT digital circuit is shown in the figure,



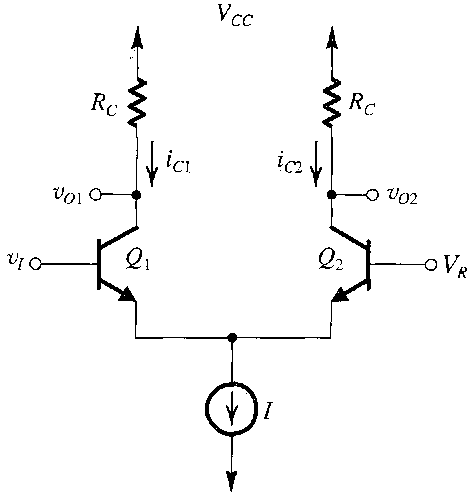
* 1. If the input is **low** ,calculate, fill the table () :

|  |  |
| --- | --- |
|  |  |
| region: |  |
|  |  |
| region: |  |
|  |  |
| region: | (low o/p current)= |
| region: (low o/p current)= | (high o/p current)= |
| region: (high o/p current)= |  |

* 1. Explain the role of the 130 Ω resistor



Exercise 11.17

For an ECL CCT, let , , , , and assume α=1. Determine and . By how much should the output levels be shifter so that the values of and become centered on ? What will the shifter values of and be?

