06 RC DC Test

AS Your Name:

1. Sketch a Voltage / Time graph showing a capacitor charging from 0 to 100 percent. On this graph, sketch vertical lines at the 50, 63, 66.6 and 100% positions. Beside each line, write down the correct formula for the time taken.

2. Sketch a Voltage / Time graph showing a capacitor discharging from 100 to 0 percent. On this graph, sketch vertical lines at the 50, 37 and 0% positions. Beside each line, write down the correct formula for the time taken.

3. Draw a circuit diagram for a test circuit that could be used to get the graphs above.