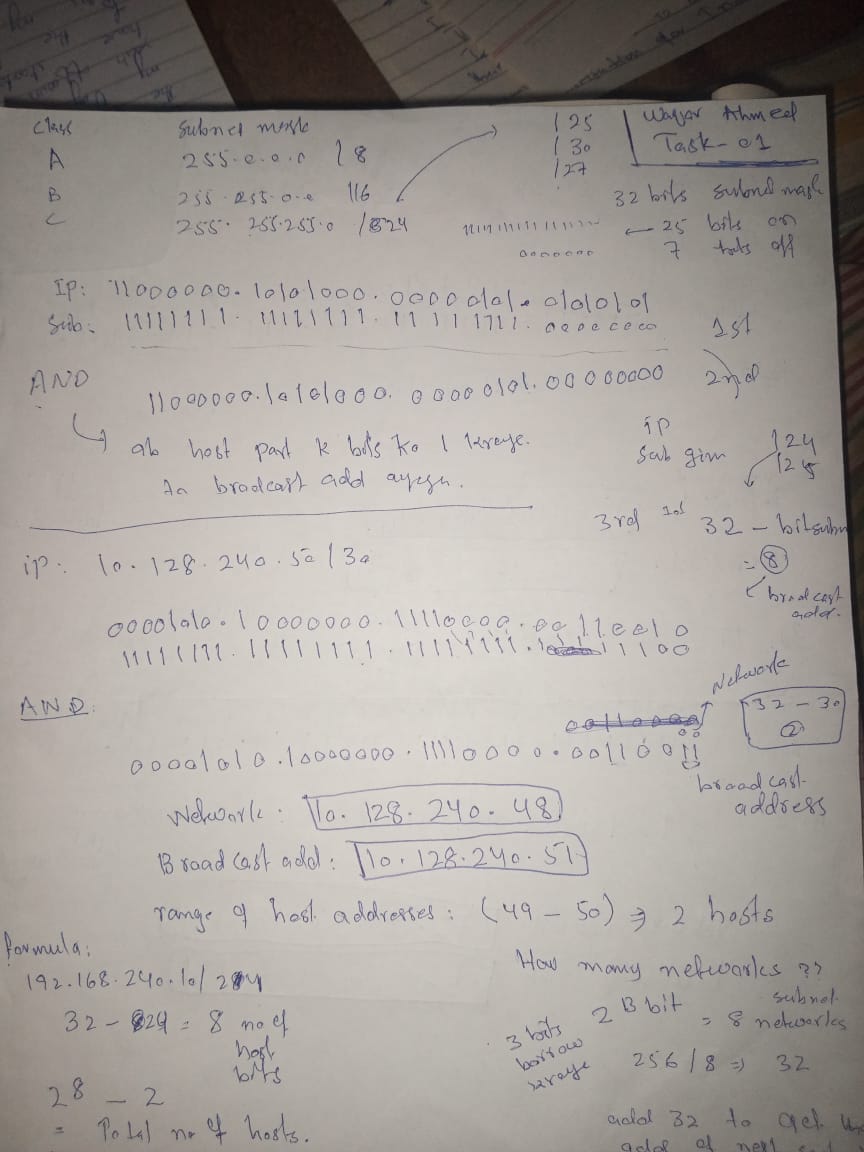
Name: Waqar Ahmed

Roll No: 20P-0750

Lab-task: subnetting

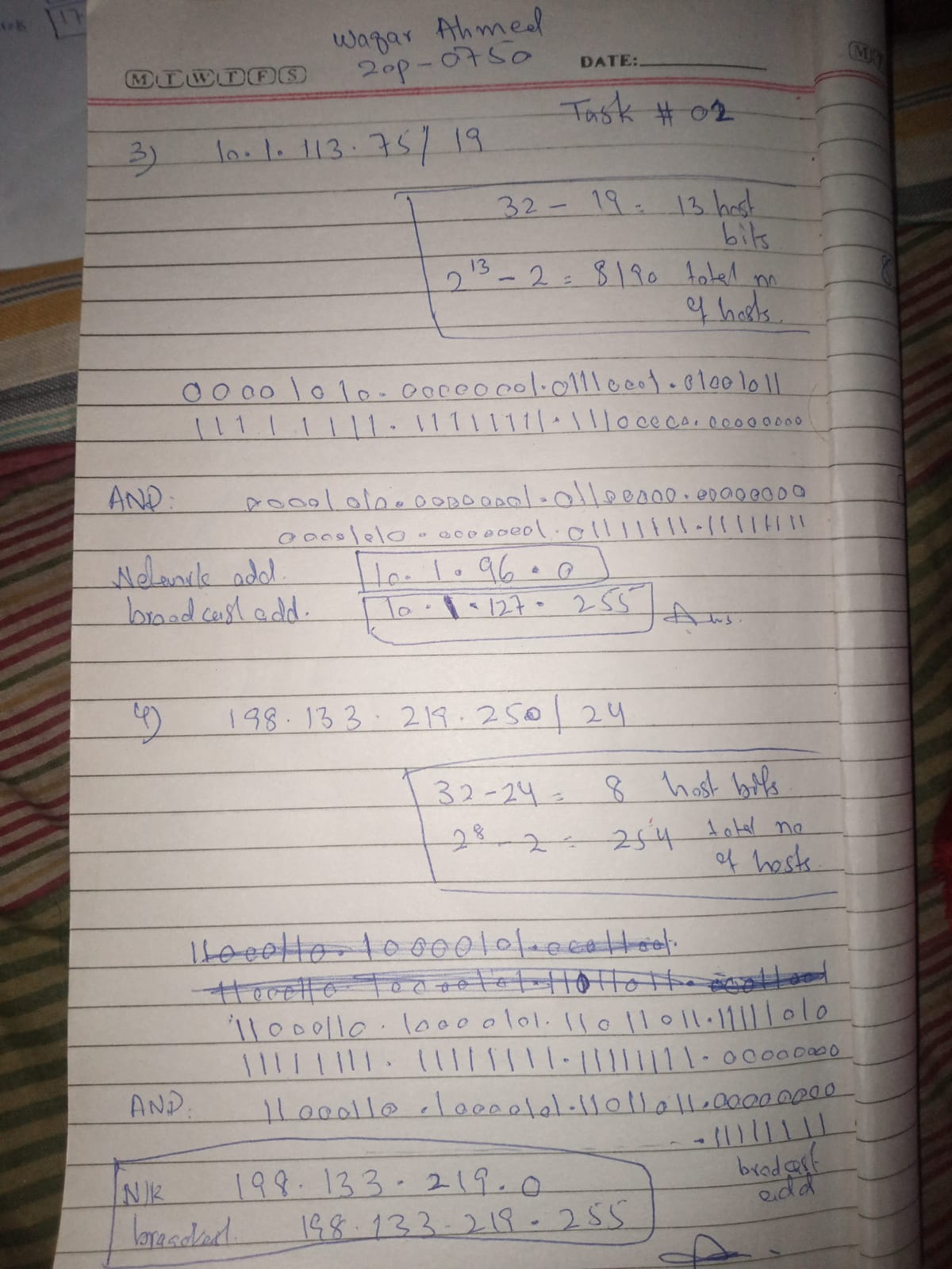
## Task 1: Determine Network Address of the following IP Address

IP address: 10.128.240.50/30. Also, determine broadcast and range of host addresses.

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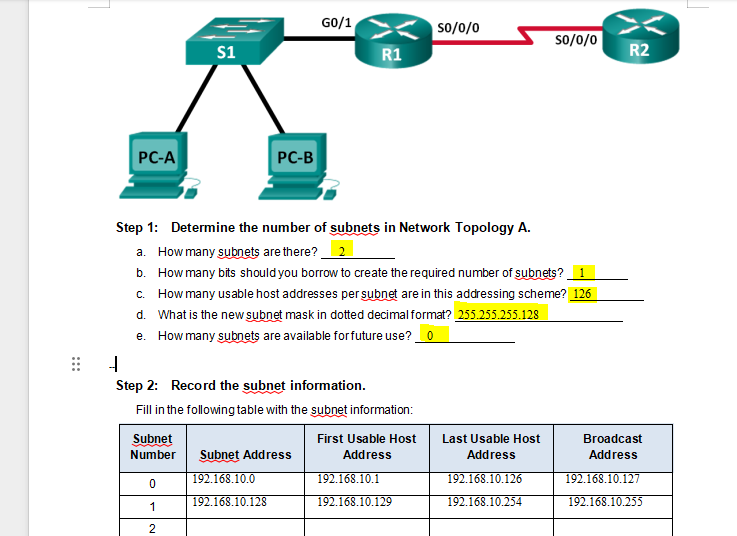
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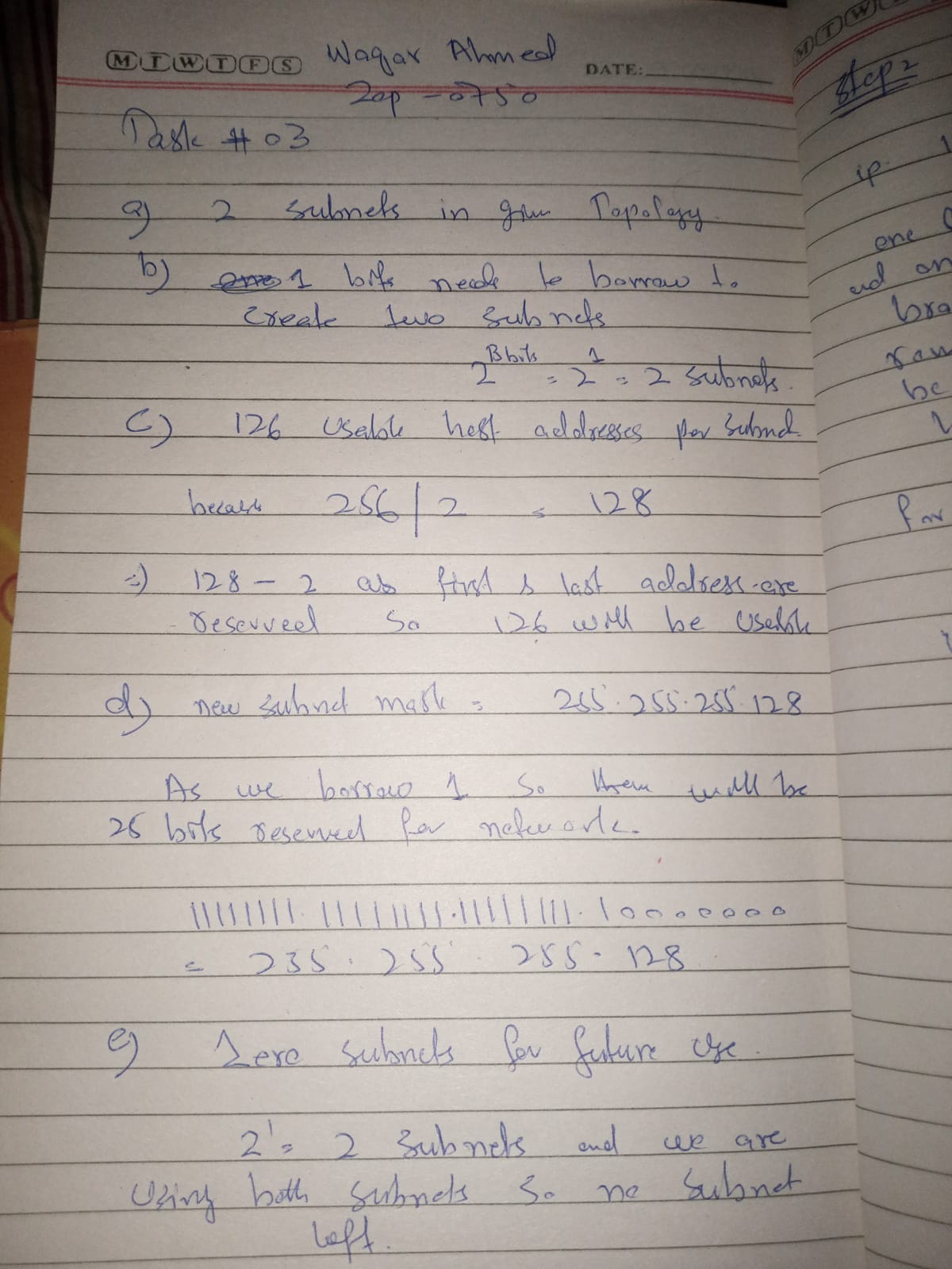
**Task 3: Network Topology A**

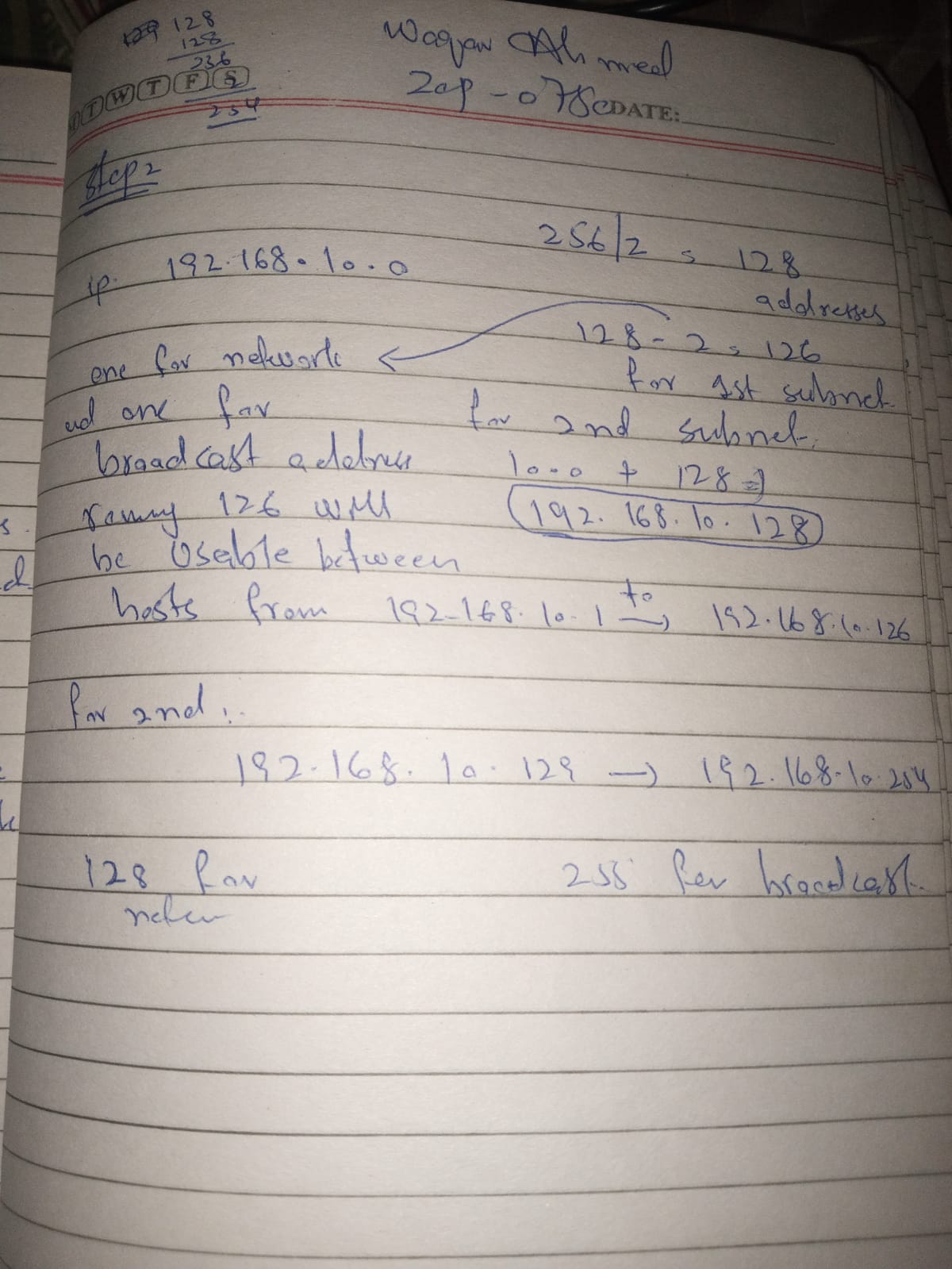
**In Part 1, you have been given the 192.168.10.0/24 network address to subnet, with the following**

**topology. Determine the number of networks needed and then design an appropriate addressing**

**Scheme.**

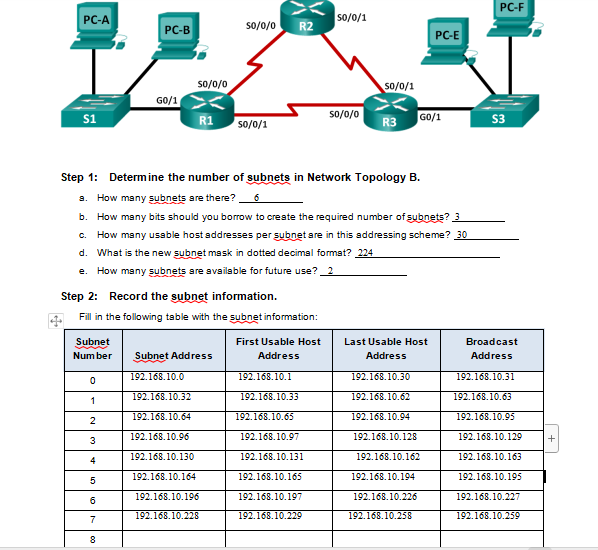
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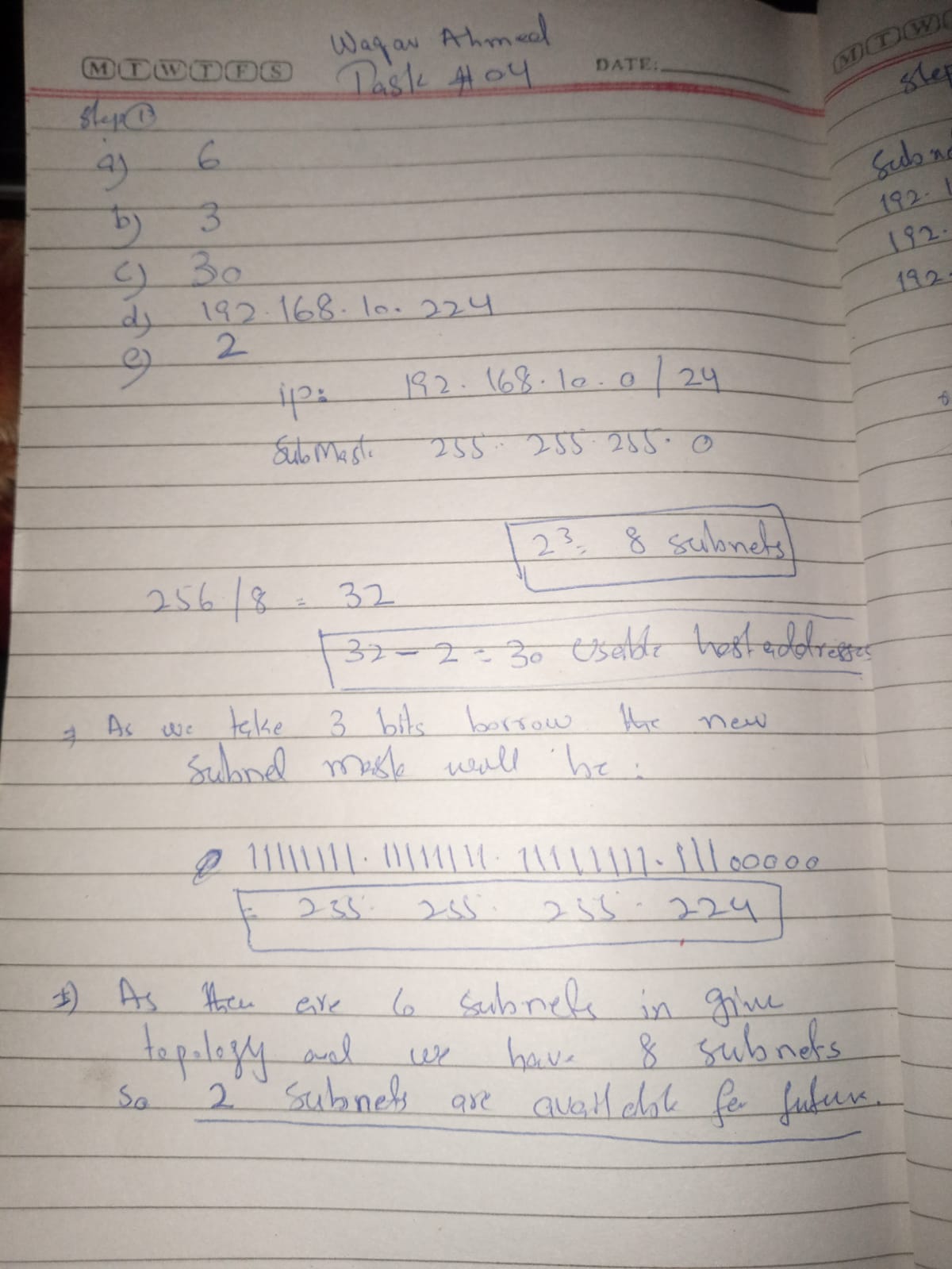
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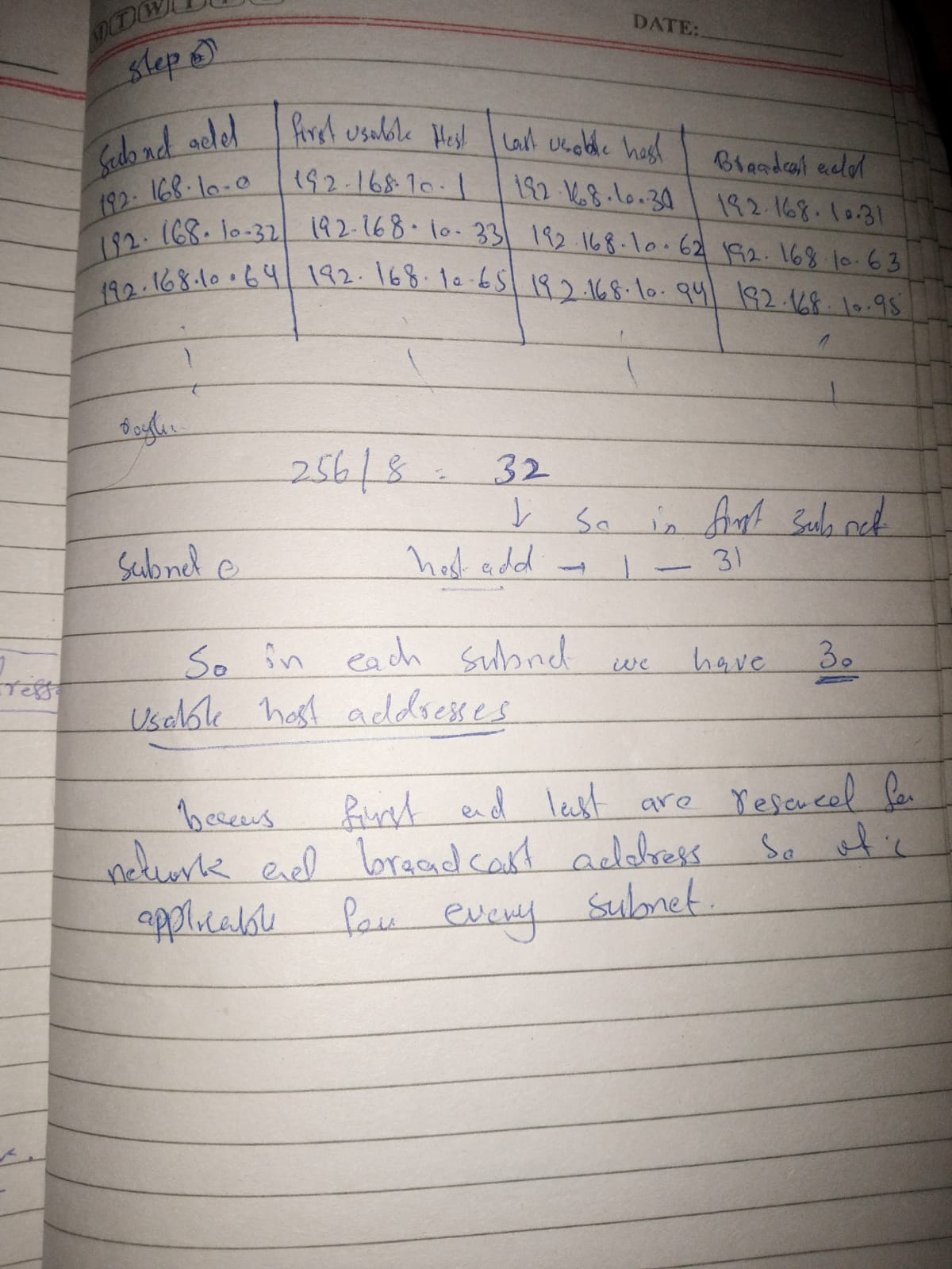
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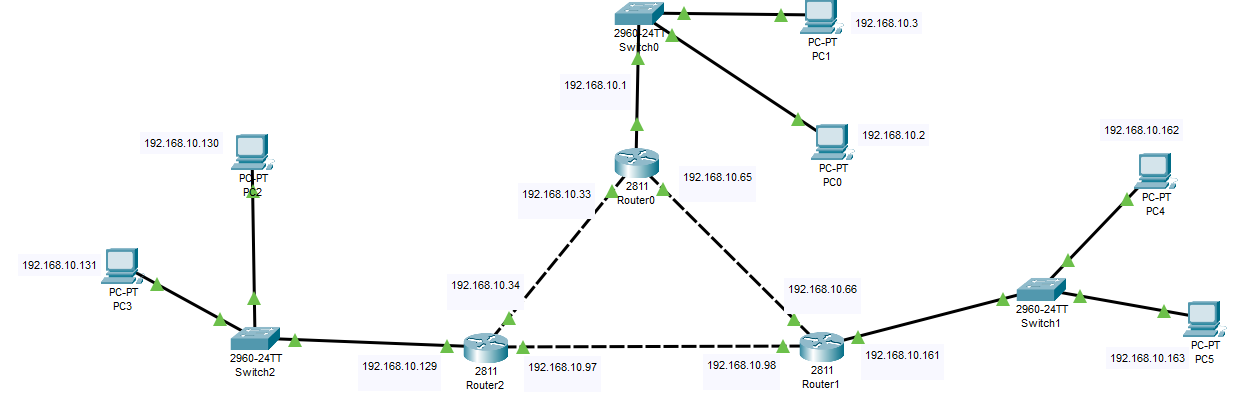
## Task 4: Network Topology B

The topology has changed again with a new LAN added to R2 and a redundant link between R1 and R3. Use the 192.168.10.0/24 network address to provide addresses to the network devices. Also provide an IP address scheme that will accommodate these additional devices. For this topology, assign a subnet to each network.

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**Step 3: Assign addresses to network devices in the subnets.**

1. **Fill in the following table with IP addresses and subnet masks for the router interfaces:**

