## Answering to the question no → 01

using class B IP!

172.168.30.0

172.168.30.1

PC 4

PC 3
172.168.30.2

switch 2

172.168.30.254

fao/o

R-2      172.168.60.0      R1      fab/o
                                   172.168.20.254

172.168.70.0    172.168.80.0

R3

172.168.40.0

172.168.50.0

172.168.90.0

R4      172.168.70.254

fao/o

172.168.20.2

PC 2

switch1

PC 1
172.168.20.1

172.168.20.0

switch3

172.168.10.1

PC5

172.168.10.2
PC 6

172.168.10.0
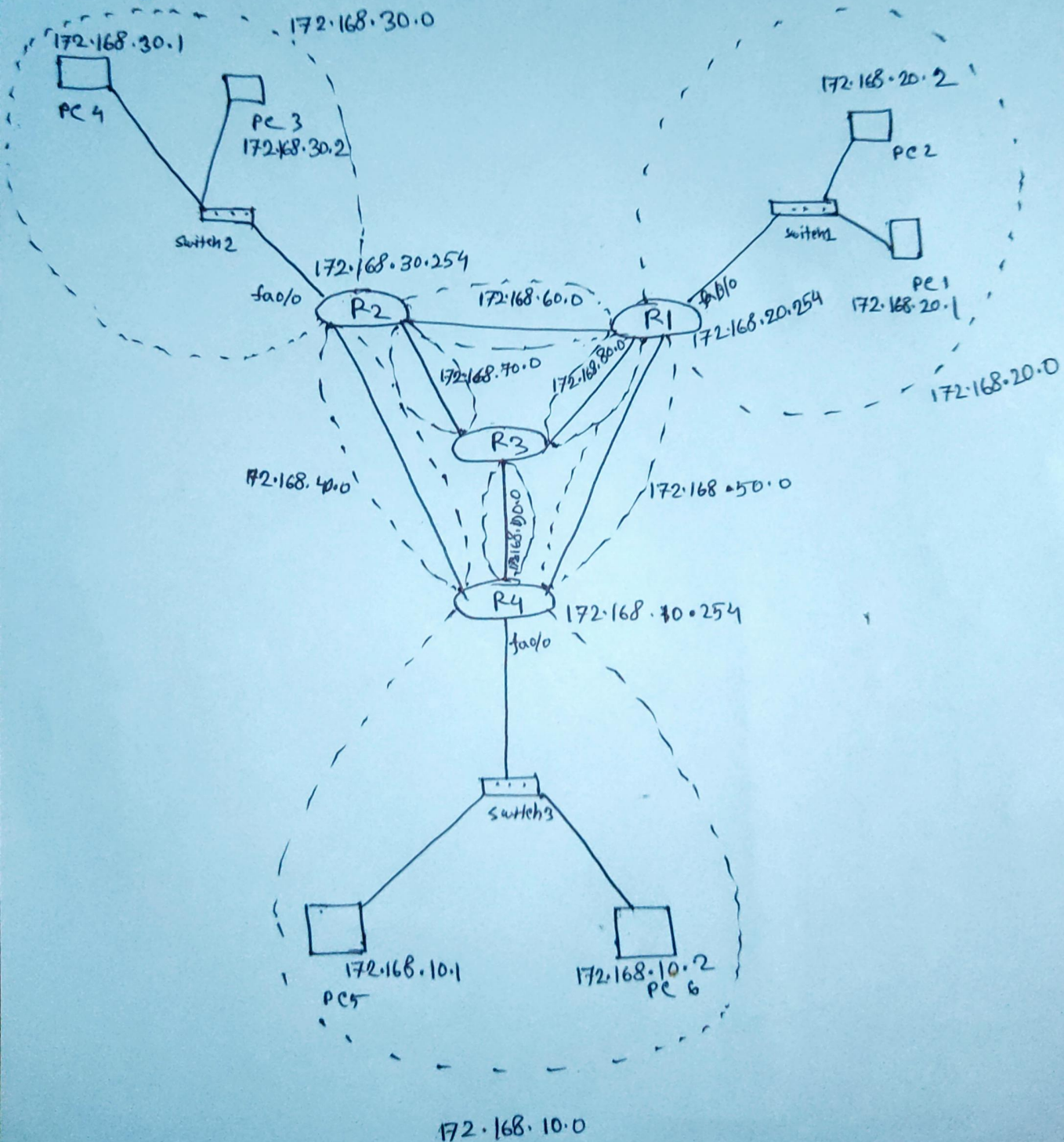
## Interface IP for R1:

Se 2/0 → 172.168.50.1

Se 3/0 → 172.168.80.1

Se 4/0 → 172.168.60.1

## Interface IP for R2:

Se 2/0 → 172.168.60.2

Se 3/0 → 172.168.70.1

Se 4/0 → 172.168.40.1

## Interface IP for R3:

Se 2/0 → 172.168.70.2

Se 3/0 → 172.168.80.2

Se 4/0 → 172.168.90.1

## Interface IP for R4:

Se 2/0 → 172.168.50.2

Se 3/0 → 172.168.40.2

Se 4/0 → 172.168.90.1

## Routing table:

### R1

| | Destination | Wild Mask | Area |
|---|---|---|---|
| i) | 172.168.20.0 | 0.0.255.255 | 1 |
| ii) | 172.168.60.0 | 0.0.255.255 | 1 |
| iii) | 172.168.80.0 | 0.0.255.255 | 1 |
| iv) | 172.168.50.0 | 0.0.255.255 | 1 |

### R3

| | Destination | Wild mask | Area |
|---|---|---|---|
| i) | 172.168.70.0 | 0.0.255.255 | 1 |
| ii) | 172.168.80.0 | 0.0.255.255 | 1 |
| iii) | 172.168.90.0 | 0.0.255.255 | 1 |