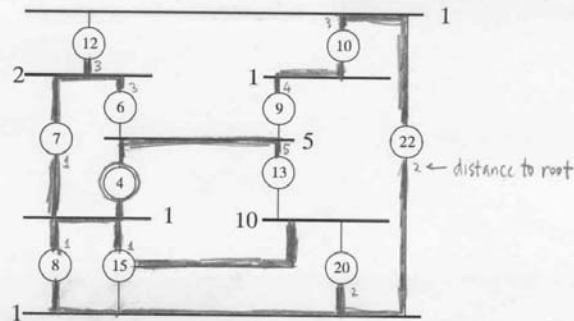
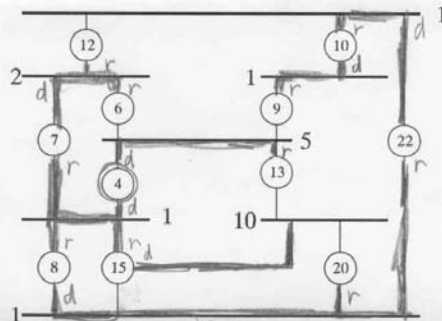


1) a) pick lowest IP as root  
compute SPT



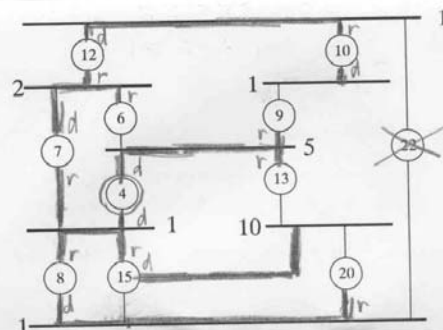
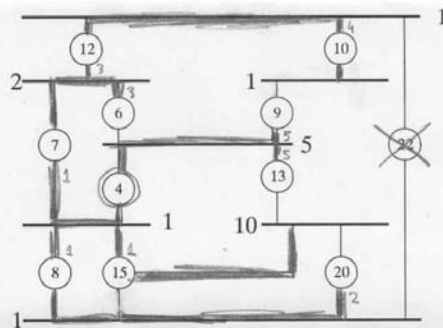
label root ports  $r$   
port leading to root

for each LAN, choose 1  
designated interface  $d$   
shortest path port not labelled  $r$



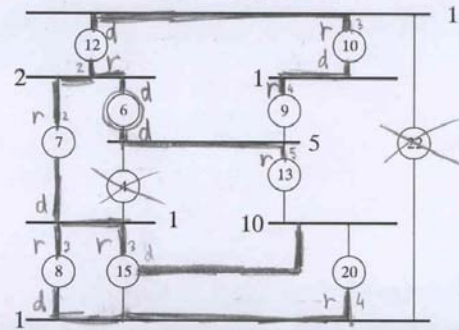
$\therefore$  turn off 9, 13, 20, 12, 6

b)  
Compute new SPT



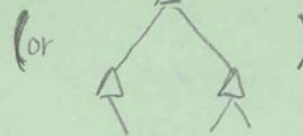
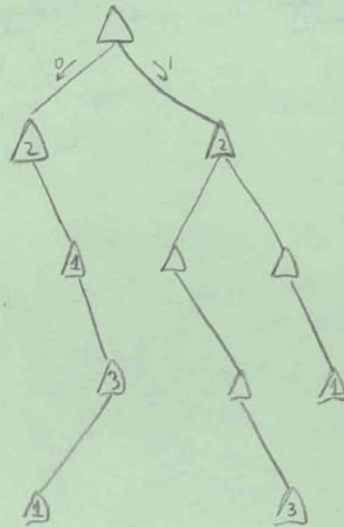
$\therefore$  turn off 9, 13, 20, 6

c)



$\therefore$  turn off 9, 13, 20

2)



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MATLAB Command Window

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3)

Using Toolbox Path Cache. Type "help toolbox\_path\_cache" for more info.

To get started, select "MATLAB Help" from the Help menu.

```
>> part_a
f1 done at t=146.45 sec
f3 done at t=148.2 sec
f2 done at t=150.2 sec
>> part_b
f1 done at t=147.35 sec
f3 done at t=147.95 sec
f2 done at t=150.2 sec
>> part_c
f1 done at t=150.1 sec
f2 done at t=150.15 sec
f3 done at t=150.2 sec
>> part_d
f1 done at t=148.35 sec
f2 done at t=149.95 sec
f3 done at t=150.2 sec
>>
```