Computer Network

Assignment1

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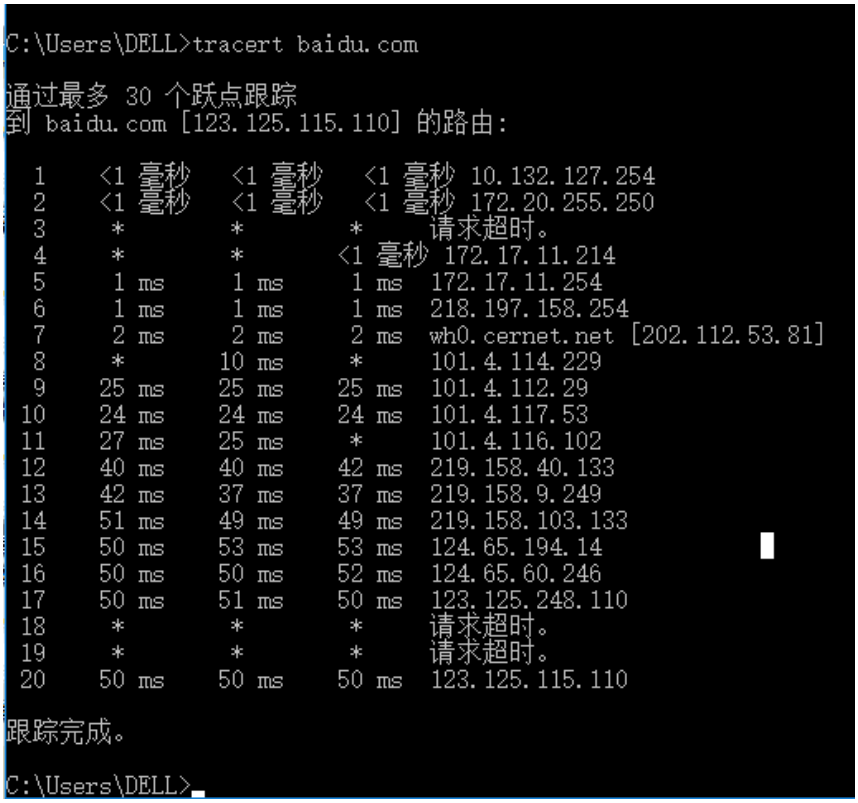
Question 1:

```
caoxiangchengdeMacBook-Pro:~ xiangchengcao$ ping 10.132.4.136
PING 10.132.4.136 (10.132.4.136): 56 data bytes
Request timeout for icmp_seq 0
Request timeout for icmp_seq 1
Request timeout for icmp_seq 2
Request timeout for icmp_seq 3
Request timeout for icmp_seq 4
64 bytes from 10.132.4.136: icmp_seq=5 ttl=124 time=6.615 ms
64 bytes from 10.132.4.136: icmp_seq=6 ttl=124 time=9.607 ms
64 bytes from 10.132.4.136: icmp_seq=7 ttl=124 time=9.974 ms
64 bytes from 10.132.4.136: icmp_seq=8 ttl=124 time=6.565 ms
64 bytes from 10.132.4.136: icmp_seq=9 ttl=124 time=63.322 ms
64 bytes from 10.132.4.136: icmp_seq=10 ttl=124 time=10.975 ms
64 bytes from 10.132.4.136: icmp_seq=11 ttl=124 time=87.564 ms
Request timeout for icmp_seq 12
Request timeout for icmp_seq 13
64 bytes from 10.132.4.136: icmp_seq=14 ttl=124 time=43.462 ms
Request timeout for icmp_seq 15
64 bytes from 10.132.4.136: icmp_seq=16 ttl=124 time=82.078 ms
64 bytes from 10.132.4.136: icmp_seq=17 ttl=124 time=17.261 ms
64 bytes from 10.132.4.136: icmp_seq=18 ttl=124 time=3.092 ms
64 bytes from 10.132.4.136: icmp_seq=19 ttl=124 time=9.621 ms
64 bytes from 10.132.4.136: icmp_seq=20 ttl=124 time=14.925 ms
```

Question 2:



Question 3:

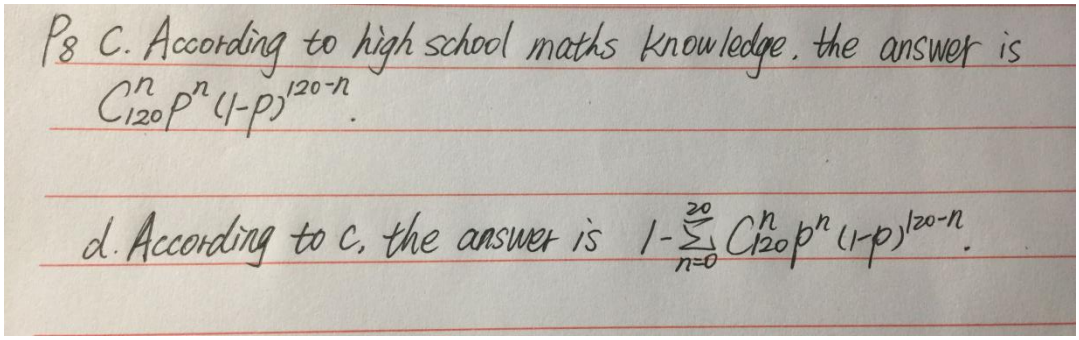
1.Q8:

a. 3 Mbps/ 150 Kbps=20

So when the circuit switching is used, 20 users can be supported.

b. The possibility ***p*** that a given user is transmitting is 10 percent.

c&d.



2.Q7:

56*8/(64*1000)sec+56*8/(2*1000000)sec+10msec=17.224msec

3.Q6:

a. d_{drop}=m/s sec

b. d_{trans}=L/R sec

c. $d_{end\text{-}to\text{-}end}=d_{drop}+d_{trans}$

d. The bit should just leave Host A

e. The bit is in the transmission and has not reached Host B

f. The bit reached Host B

g. m=(L*s)/R=536km