SEMANA 2

Resolver los siguientes ejercicios:

Calcular el número de host de la siguientes direcciones de red.

1. 192.0.0.0   Mascara /8   NumeroHost: 16 777 214

.1111 1111.00 00 00 00.00 00 00 00.00 000000
255 . 0 . 0 . 0

Ded: 192.0.0.0
1er Host: 192.0.0.1
Ultimo Host: 192.255.255.254
Broadcast: 129.255.255.255

1100 00 00 00 0000 00 00 00 00 00 00 00 00 00
00 0000 00 11 11 11 11 11 11 11 11 11 11 11 11
11 0000 00 11 11 11 11 11 11 11 11 11 11 11 11
192. 255. 255 . 255

2. 192.0.0.0   Mascara /10   Numero Host: 4194304

11 11 11 11.11 00 00 00.00 00 00 00.00 00 00 00
255 . 192 . 0 . 0

Ded: 192.0.0.0
1er Host 192.0.0.1
Ultimo Host 192.63.255.254
Broadcast: 192.63.255.255

11 00 00 00.00 00 00 00.00 00 00 00.00 00 00 00
00 00 00 00.00 11 11 11.11 11 11 11.11 11 11 11
11 00 00 00.00 11 11 11.11 11 11 11.11 11 11 11
192. 63 . 255 . 255

3. 192.0.0.0   Mascara /12   NumeroHost: 1048576

11 11 11 11.11 11 00 00.00 00 00 00.00 00 00 00
255 . 240 . 0 . 0

Ded: 192.0.0.0
1er Host 192.0.0.1
Ultimo Host 192.15.255.254
BroadCast 192.15.255.255

11 00 00 00.00 00 00 00.00 00 00 00.00 00 00 00
00 00 00 00.00 00 11 11.11 11 11 11.11 11 11 11
11 00 00 00.00 00 11 11.11 11 11 11.11 11 11 11
192 . 255 . 255. 255

4. 192.0.0.0   Mascara /14   Numero Host 252144

11 11 11 11.11 11 11 11.00 00 00 00.00 00 00 00

Red 192.0.0.0
1er Host 192.0.0.1
Ultimo Host 192.3.255.254
Broadcast 192.3.255.255

11 00 00 00.00 00 00 00.00 00 00 00.00 00 00 00
00 00 00 00.00 00 00 11.11 11 11 11.11 11 11 11
11 00 00 00.00 00 00 11.11 11 11 11.11 11 11 11
192 . 3 . 255 . 255

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5. 192.0.0.0/16

11 11 11 11, 11 11 11 11, 00 00 00 00, 00 00 00 00
255 . 255 . 0 . 0

Numero Host: 65536

Ded   192. 0. 0. 0
1er Host   192. 0. 0. 1
UltimoHost 192. 0. 255. 254
Brodcast 192. 0. 255. 255

11 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 11 11 11 11 11 11 11 11
11 00 00 00 00 00 00 00 00 11 11 11 11 11 11 11 11
192 . 0 . 255 . 255

6. 192.0.0.0/18

11 11 11 11, 11 11 11 11, 11 00 00 00, 00 00 00 00
255 . 255 . 192 . 0

Numero Host : 16382

Ded: 192. 0. 0. 0
1er Host   192. 0. 0. 1
UltimoHost 192. 0. 63. 254
Brodcast 192. 0. 63. 255

11 00 00 00, 00 00 00 00, 00 00 00 00, 00 00 00 00
00 00 00 00 00 00 00 00 00 11 11 11 11 11 11 11
11 00 00 00 00 00 00 00 00 11 11 11 11 11 11 11
192 . 0 . 63 . 255

7. 192.0.0.0/20

Ded   192. 0. 0. 0
1er Host   192. 0. 0. 1
UltimoHost 192. 0. 15. 254
Brodcast 192. 0. 15. 255
Hosts: 4096

11 11 11 11, 11 11 11 11, 11 11 00 00, 00 00 00 00
255 . 255 . 240. 0

11 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 11 11 11 11 11 11
11 00 00 00, 00 00 00 00, 00 00 11 11 11 11 11 11
192 . 0 . 15 . 255

8. 192.0.0.0/22

Ded   192. 0. 0. 0
1er Host: 192. 0. 0. 1
UltimoHost 192. 0. 3. 254
Brodcast 192. 0. 3. 255
Host: 1024

11 00 00 00, 00 00 00 11, 1 11 11 00 00 00 00 00
255 . 255 . 252 . 0

11 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 11 11 11 11 11 11
11 00 00 00 00 00 00 00 00 00 11 11 11 11 11 11
192 . 0 . 3 . 255

9. 192.0.0.0/24

Ded   192. 0. 0. 0
1er Host: 192. 0. 0. 1
UltimoHost 192. 0. 0. 254
Brodcast: 192. 0. 0. 255
Host :   254

11 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 11 11 11 11
11 00 00 00 00 00 00 00 00 00 00 11 11 11 11
192 . 0 . 0 . 255

11 11 11 11, 11 11 11 11, 11 11 11 11, 00 00 00 00
255 . 255 . 255 . 0

10. 192.0.0.0/26

Red	192.0.0.0
1er Host	192.0.0.1
Ultimo Host:	192.0.0.62
Brodcast:	192.0.0.63
Hosts	64

11 11 11 11 11 11 11 11 11 11 11 11 0000 00
255 . 255 . 255 . 192

11 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 11 11 11 11
11 00 00 00 00 00 00 00 00 00 00 00 00 11 11 11 11
192 . 0 . 0 . 63

11. 192.0.0.0/27

Red	192.0.0.0
1er Host	192.0.0.1
Ultimo Host:	192.0.0.30
Brodcast:	192.0.0.31
Hosts	32

11 11 11 11 11 11 11 11 11 11 11 11 00 00
255 . 255 . 255 . 240

11 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 11 11
11 00 00 00 00 00 00 00 00 00 00 00 00 0000 1111
192 . 0 . 0 . 31

12. 192.0.0.0/28

Red	192.0.0.0
1er Host	192.0.0.1
Ultimo Host	192.0.0.14
Brodcast	192.0.0.15
Hosts	16

11 11 11 11 11 11 11 11 11 11 11 11 11 1100
255 . 255 . 255 . 252

11 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 11
11 00 00 00 00 00 00 00 00 00 00 00 00 00 11
192 . 0 . 0 . 15

13. 192.0.0.0/29

Red	192.0.0.0
1er Host	192.0.0.1
Ultimo Host	192.0.0.7
Hosts :	6
Brodcast	192.0.0.6

11 11 11 11 11 11 11 11 11 11 11 11 1000
255 . 255 . 255 . 248

11 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 000111
192 . 0 . 0 . 7