App!

```
port src. 10
port dst. 20
IP src 10.0.0.1
IP dst 2.0.0.1
```

1.0.0.1

1.0.0/8

1.0.0.1 | 2.0.0.1

Internet

172.16.0.0/16

172.16.0.2

172.16.0.1

App3
10
172.16.0.1

NAT
PAT

1.0.0.1

2.0.0/8

App2

reponse 1 :

2.0.0.1

table Nat

(@privé, port) (@ publique, port pub)

10.0.0.1, 10   10.0.1, 100
172.16.0.1, 10   1.0.0.1, 101

10	20
172.16.0.1	2.0.0.1

20	101
2.0.0.1	1.0.0.1

2 | 10.0.0.1

20	100
2.0.0.1	1.0.0.1

Dst	G x x/
10.0.0/8	R1
10.0.0.0/16	R2
0.0.0/0	R3

10.0.0.0/8
0.0.0.0/0

Internet

R1

X
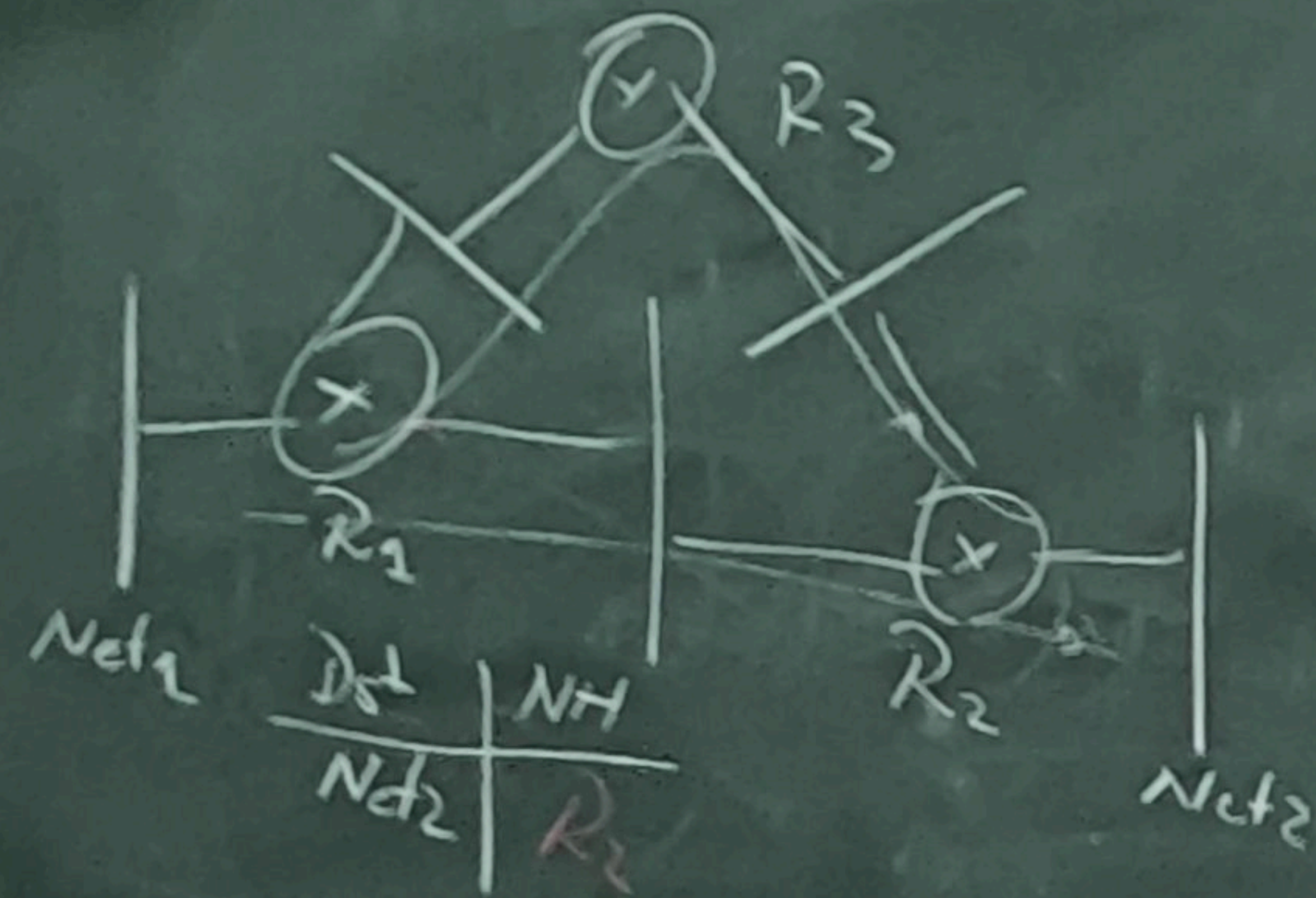
Static   Dynamic (Process)

IP ──▷ Configuration
{
  ──▷ @sip des interfaces (Ploge d'
                            (DHCP)   IP)
  ──▷ table de Routage
}

Net₂   Dst | NH
       ──────
       Nd₂ | R₂

R₁   R₂   R₃

Net₂

Top board

AS1 ... AS2 — IGP

↑ filtre

IGP
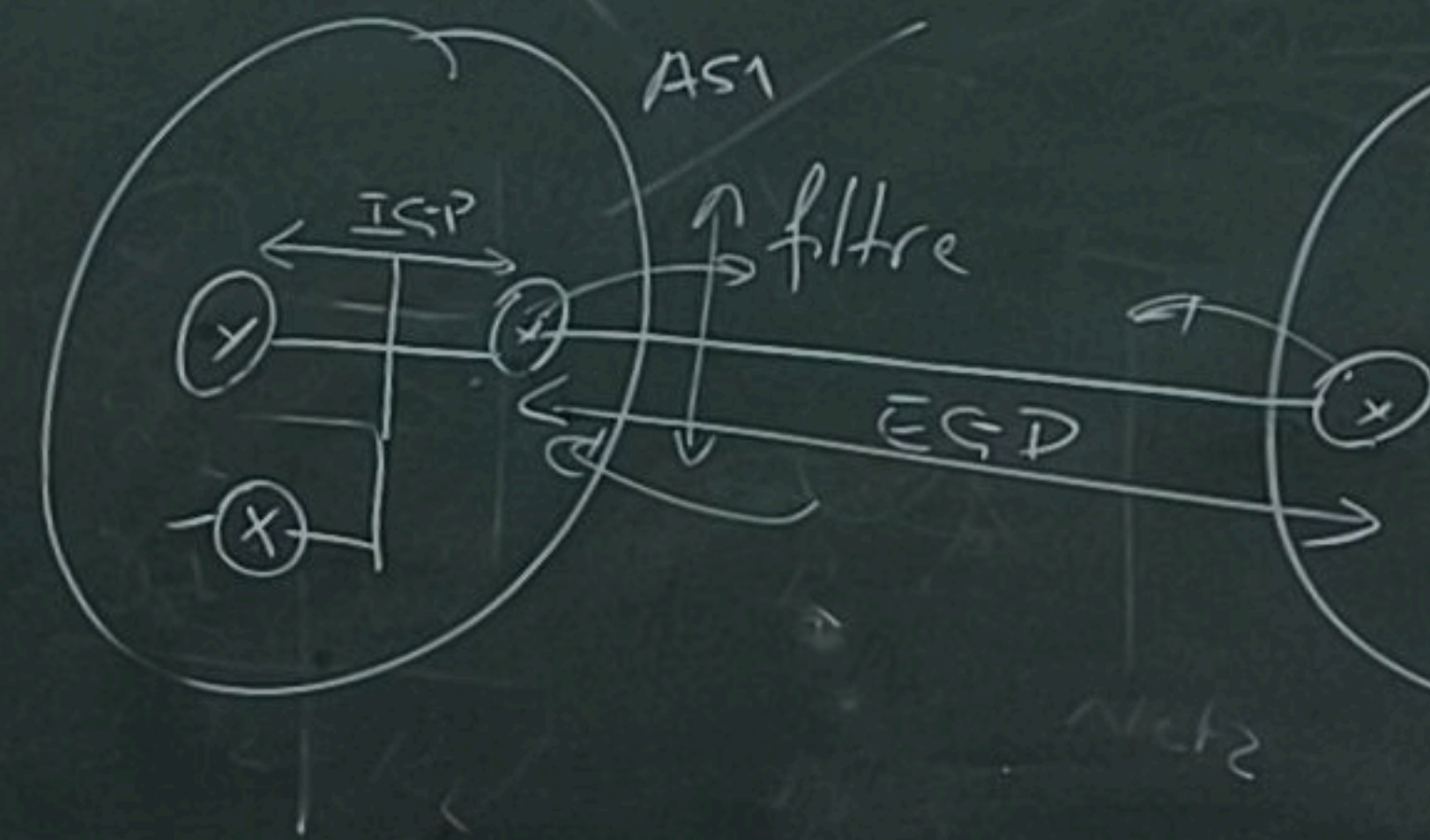
EGP

EGP (BGP)

↳ Vecteur de distance $\quad \left(RIP \right)$

↳ Etat de lien $\quad \left(OSPF \right)$

Net2

Dynamique (Processus)

Bottom board

$2.0.0.0 \ (R_2)$

(RIP)

R_1

$2.0.0/8 \ (RIP)$

Net2

Net3 $\quad R_2$

if3

if2

$1.0.0.1/8$ $\quad$ $2.0.0.1/8$

$3.0.0.2/8$

if1 $\quad$ if2

$2.0.0.2/8$

Net1 $\quad$ Net1 $\quad$ Net2 $\quad$ Net3

$1.0.0/8$ $\quad$ Net2 $\quad$ $2.0.0/8$ $\quad$ $3.0.0/8$
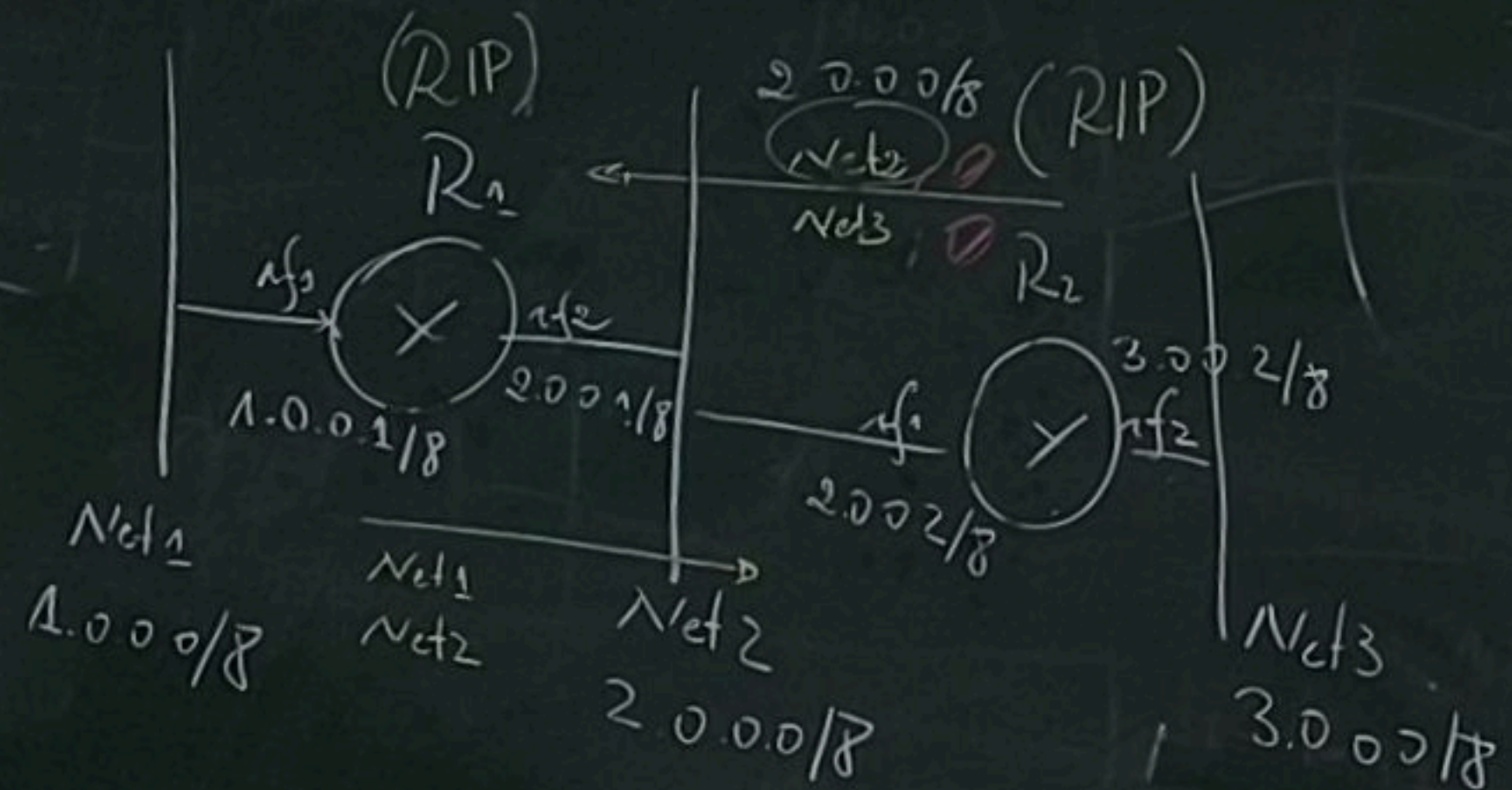
Protocol	Dst	Next Hop	interface de sortie
Internet	$1.0.0.0/8$	Connected	if1
	$2.0.0.0/8$	C	if2
RIP	$3.0.0.0/8$	$2.0.0.2$	if2
	$2.0.0.0/8$	C	if1
	$3.0.0.0/8$	C	if2
RIP	$1.0.0.0/8$	$2.0.0.1$	if1