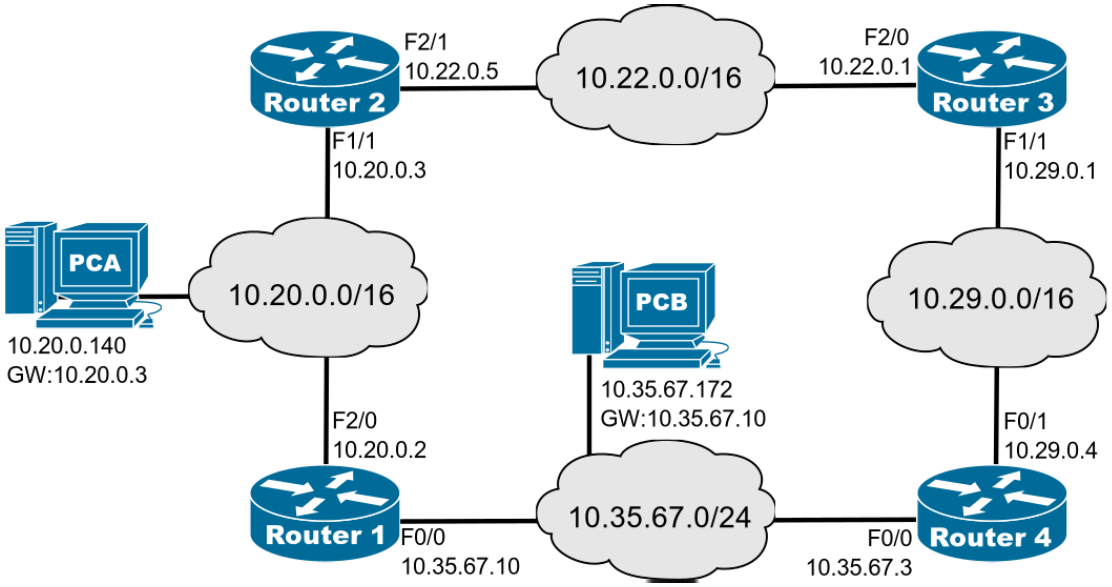


Considering the above network where all routers have the RIP active for all networks, and the routing process is stabilized, answer True or False to the following sentences:
The full IPV4 routing table entry in Router 1 for network 10.29.0.0/16 is

```
R 10.29.0.0/16 [120/1] via 10.22.0.1, 00:00:02, F2/1
```

. [False]

The full IPV4 routing table entry in Router 2 for network 10.29.0.0/16 is

```
R 10.29.0.0/16 [120/1] via 10.22.0.1, 00:00:14, F2/1
               [120/2] via 10.20.0.2, 00:00:06, F1/1
```

. [False]

The full IPV4 routing table entry in Router 3 for network 10.35.67.0/24 is

```
R 10.35.67.0/24 [120/1] via 10.29.0.4, 00:00:06, F1/1
```

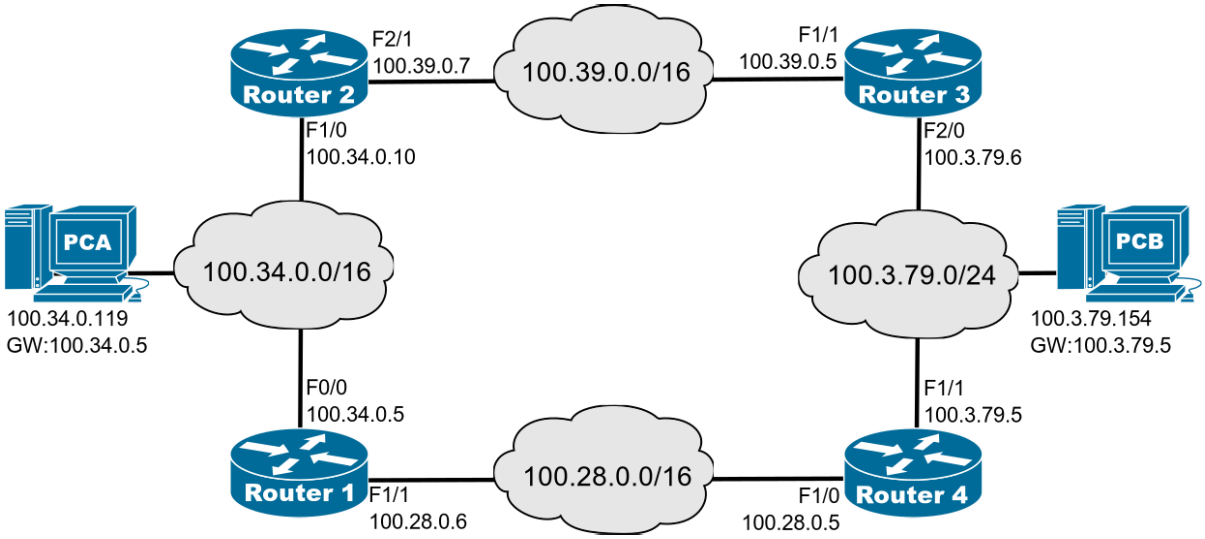
. [True]

The full IPV4 routing table entry in Router 4 for network 10.22.0.0/16 is

```
R 10.22.0.0/16 [120/1] via 10.29.0.1, 00:00:10, F0/1
```

. [True]

Grading: right answer: 25%, wrong answer: -12%, no answer: 0%



Packet 1

```
Routing Information Protocol
   Command: Response (2)
   Version: RIPv? (?)
   IP Address: 100.39.0.0, Metric: 2
      Address Family: IP (2)
      Route Tag: 0
      IP Address: 100.39.0.0
      Netmask: 255.255.0.0
      Next Hop: 0.0.0.0
      Metric: 2
   IP Address: 100.3.79.0, Metric: 1
      Address Family: IP (2)
      Route Tag: 0
      IP Address: 100.3.79.0
      Netmask: 255.255.255.0
      Next Hop: 0.0.0.0
      Metric: 1
```

Packet 2

```
Routing Information Protocol
   Command: Response (2)
   Version: RIPv? (?)
   IP Address: 100.39.0.0, Metric: 2
      Address Family: IP (2)
      Route Tag: 0
      IP Address: 100.39.0.0
      Netmask: 255.255.0.0
      Next Hop: 0.0.0.0
      Metric: 2
   IP Address: 100.34.0.0, Metric: 1
      Address Family: IP (2)
      Route Tag: 0
      IP Address: 100.34.0.0
      Netmask: 255.255.0.0
      Next Hop: 0.0.0.0
      Metric: 1
```

Considering the above network where all routers have the RIP active for all networks and the routing process is stabilized, and the above complete RIP data from packets captured in the network LANs, answer True or False to the following sentences:

Packet 1 source address is 100.28.0.5. [True]

Packet 2 was captured in network 100.28.0.0/16. [True]

The Split-Horizon is active in the interfaces from which both packets were sent. [True]

The packets have a broadcast destination address. [False]

Grading: right answer: 25%, wrong answer: -12%, no answer: 0%

```
Pro       Inside global       Inside local       Outside local       Outside global icmp
197.57.22.2:31830    192.168.40.8:31830    220.86.49.41:31830    220.86.49.41:31830 icmp
197.57.22.3:28811    192.168.40.7:28811    218.61.17.41:28811    218.61.17.41:28811 udp
197.57.22.4:34340    192.168.40.9:34340    214.48.67.44:20         214.48.67.44:20  udp
197.57.22.5:33225   192.168.40.2:33225   208.23.51.42:20      208.23.51.42:20
---     197.57.22.5         192.168.40.2         ---                 ---
---     197.57.22.4         192.168.40.9         ---                 ---
---     197.57.22.3         192.168.40.7         ---                 ---
---     197.57.22.2         192.168.40.8         ---                 ---
```

Considering a router that connects a corporate network to the Internet, and the above router's NAT translations table where all entries are dynamic, answer True or False to the following sentences:
The Port Address Translation (PAT) mechanism is not active. [True]

Six (6) hosts with private IPv4 addresses are accessing the Internet. [False]

There are three (3) active ICMP connections to the Internet. [False]

A packet (from the Internet) that reaches this router with destination address 220.86.49.41 will be forwarded to the private network host with address 192.168.40.8. [False]

Grading: right answer: 25%, wrong answer: -12%, no answer: 0%

.