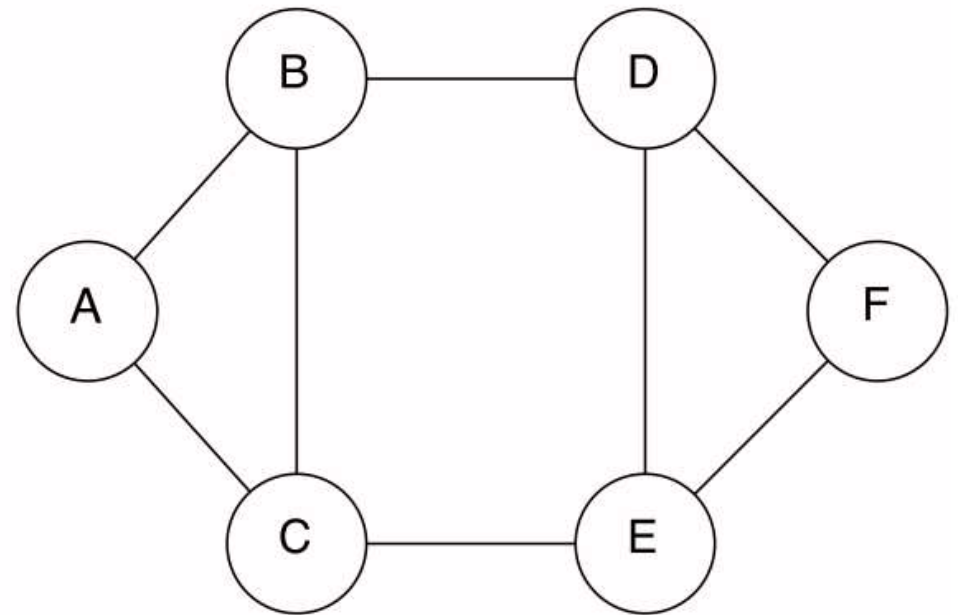# IF2230 Computer Networks

Exercise 1

1

Suppose a 400.000 km link is being setup between Earth and Moon. The link has bandwidth 100 MBps point to point, and data travel over the link at speed of light, 3×10^8 m/s

a) Minimum RTT?

b) How long to download 25 MB image

2

a) Using RIP, fill forwarding table for node A

b) If node E down, fill forwarding table for node B

3
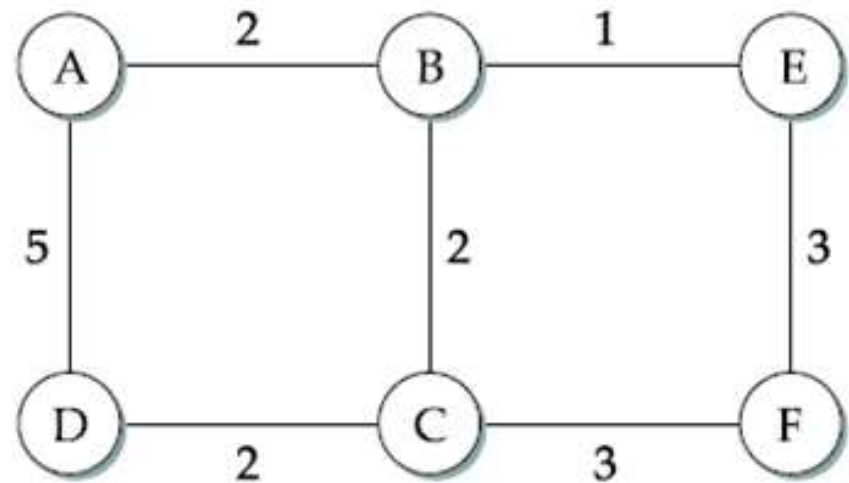
- A company has following Ip addreses:
  - 192.1.0.*
  - 192.1.1.*
  - 192.1.2.*
  - 192.1.3.*
  - 192.1.4.*
- Under CIDR, how we can describe those addresses

4

- What DV Table in node A?
- What DV Table in node B

if E down

5

Suppose we have to 1011 0010 0100 1011

a) Assume we use CRC 8 $x^8 + x^2 + x + 1$, what message we transmit?

b) If first bit change to 0, what is the result of receiver's CRC calculation?