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#1. a) 1) 5

2) 6

3) $d(1) = 2$, ..., $d(3) = 3$,

b) 1) 6

2) 4

3) $d(G) = 1$, $d(F) = 3$,

2. a) 5

b) $d(4) = 3$

c) Not 2

d) Missing 13 and 23,

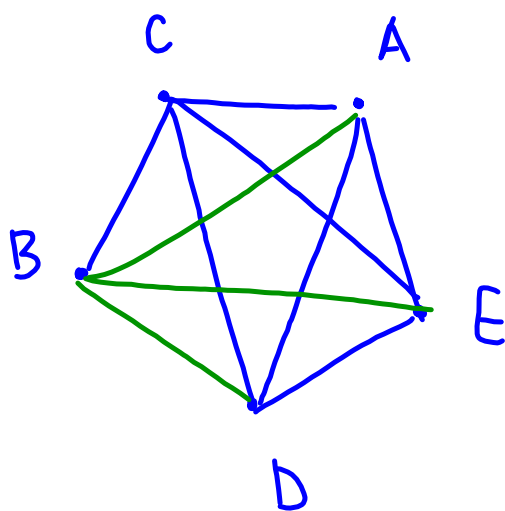
It is connected

3. a) 12, 15, 35, 34, 45

4. a) connected e) connected
b) CD for example f) AC
c) connected
d) BE

15. Africa (in graph, it would have the highest degree)

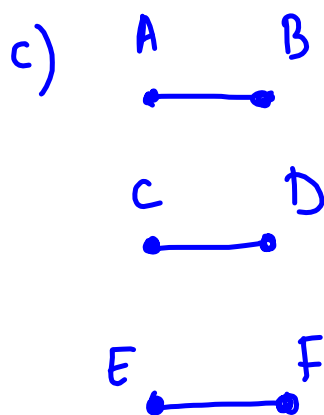
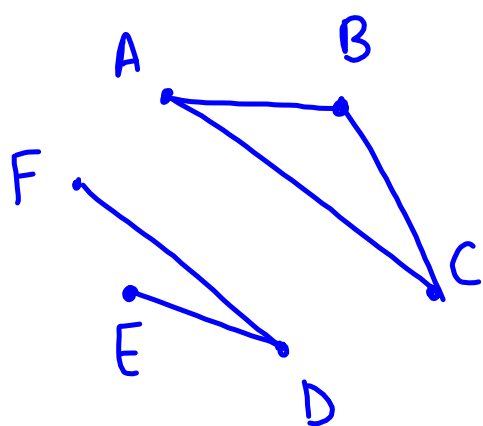
1b. a)



b) Bernard

c) 3

17. a)



b) AF

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#4. 1) a) No

b) Yes a path 2) b) ACDBFE

c) No

d) Yes, both 2) d) BFEDCAB