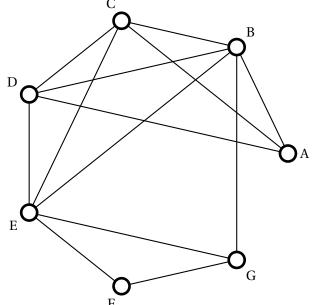
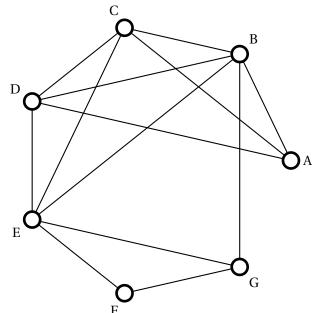
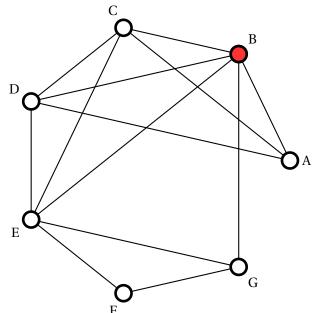
The Welsh Algorithm

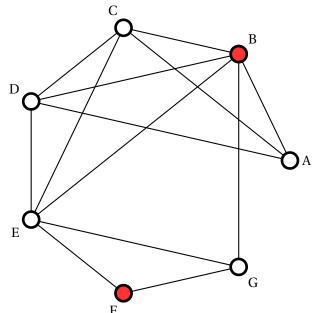


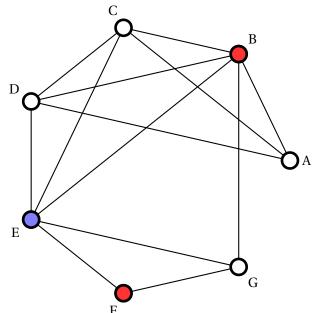
Sort the vertices in decreasing order of degree

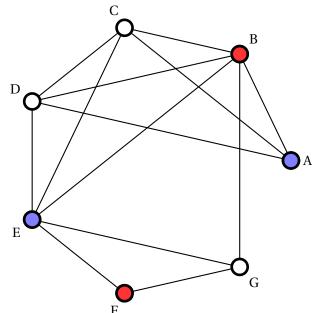
Vertices	Degree
В	5
E	5
C	4
D	4
A	3
G	3
F	2

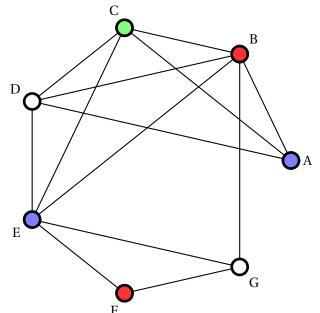


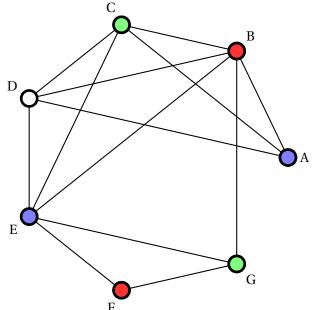


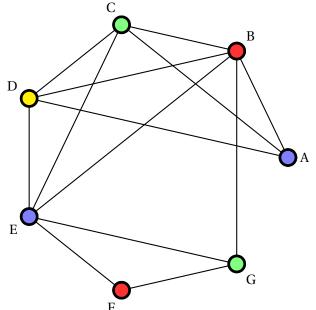




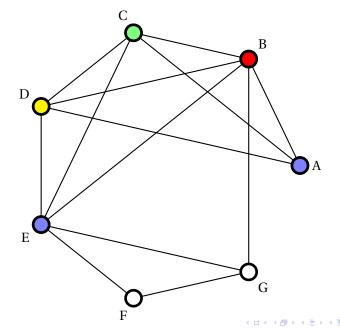








ABCD and BCDE are complete subgraphs of order 4.



Conclusion

The chromatic number χ is 4.