

Graphing Homework

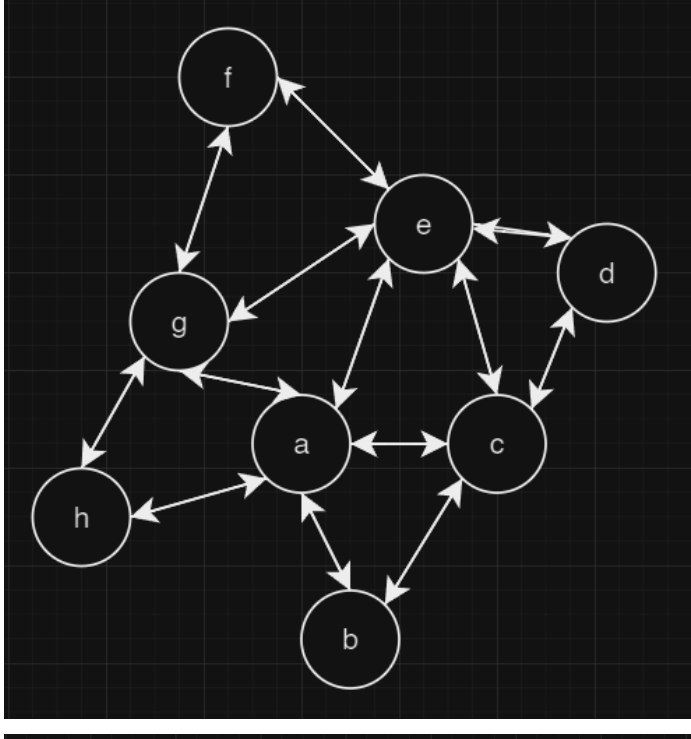
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Exercises for Section 16

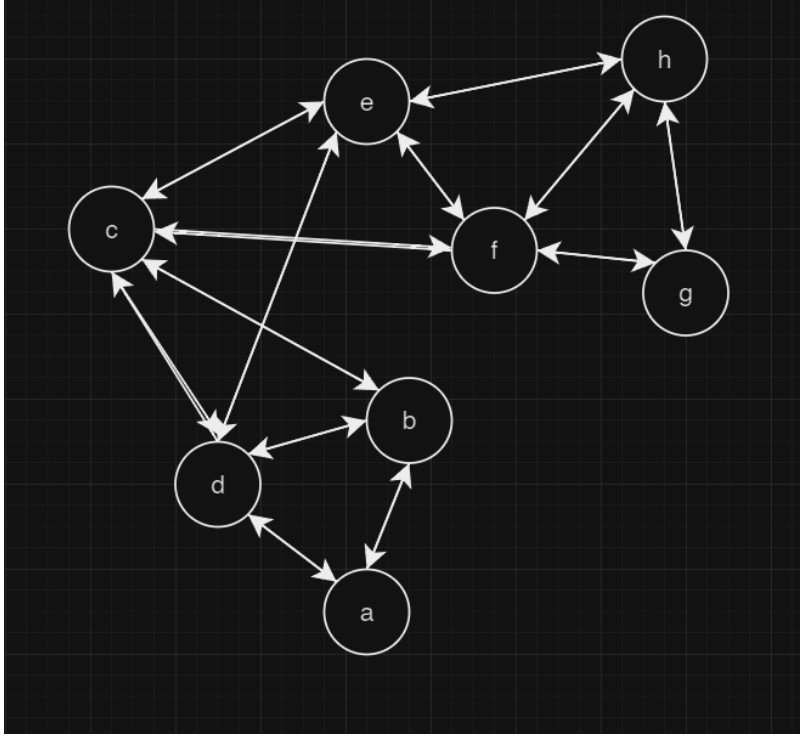
1. a F,B,C, F,D, A, C, F, E, D, A, C
 b a =2, b = 2, c = 2, d = 3, f = 3, e = 2
 c 6
 d 3
2. a F,A,D, C, F,A, D, E, C, F, I, D, E, C, F, I, D, C, F,H,B, A, D, C, F, H, B, A , D, E, C
 b a =3, b = 2, c = 2, d = 4, e = 2, f = 3, h = 2, i = 2
 c 9
 d 3
3. a $5 + 2 + 4 + 5 = 16$
 b A,G, J = 6, A, D, H, J = 13, A, G, H, J = 14
 c H, N = 3, H, K, N = 6, H, G, J, N = 13, H, G, J, M, N= 17, H, I, L, O, K, N = 19
 d 13, there are 2 of this length
 e F, I, lowest = F, L, I = 5

4.

$A \rightarrow C \rightarrow D$
 $B \rightarrow C \rightarrow F$
 $C \rightarrow A \rightarrow B$
 $D \rightarrow A \rightarrow E \rightarrow F$
 $E \rightarrow F \rightarrow D$
 $F \rightarrow B \rightarrow E \rightarrow D$
 $H \rightarrow I$
 $I \rightarrow H$



5. a



b

6. a

0 0 1 1 0 0 0 0
0 0 1 0 0 1 0 0
1 1 0 0 0 0 0 0
1 0 0 0 1 1 0 0
0 0 0 1 0 1 0 0
0 1 0 1 1 0 0 0
0 0 0 0 0 0 0 1
0 0 0 0 0 0 1 0

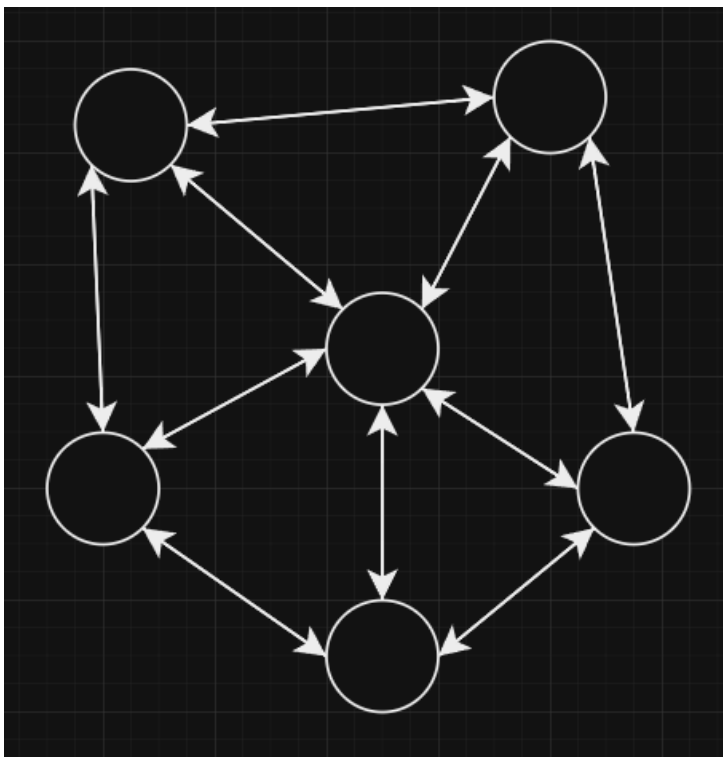
b

0 1 1 0 1 0 1 1
1 0 1 0 0 0 0 0
1 1 0 1 1 0 0 0
0 0 1 0 1 0 0 0
1 0 1 1 0 1 1 0
0 0 0 0 1 0 1 0
1 0 0 0 1 1 0 1
1 0 0 0 0 0 1 0

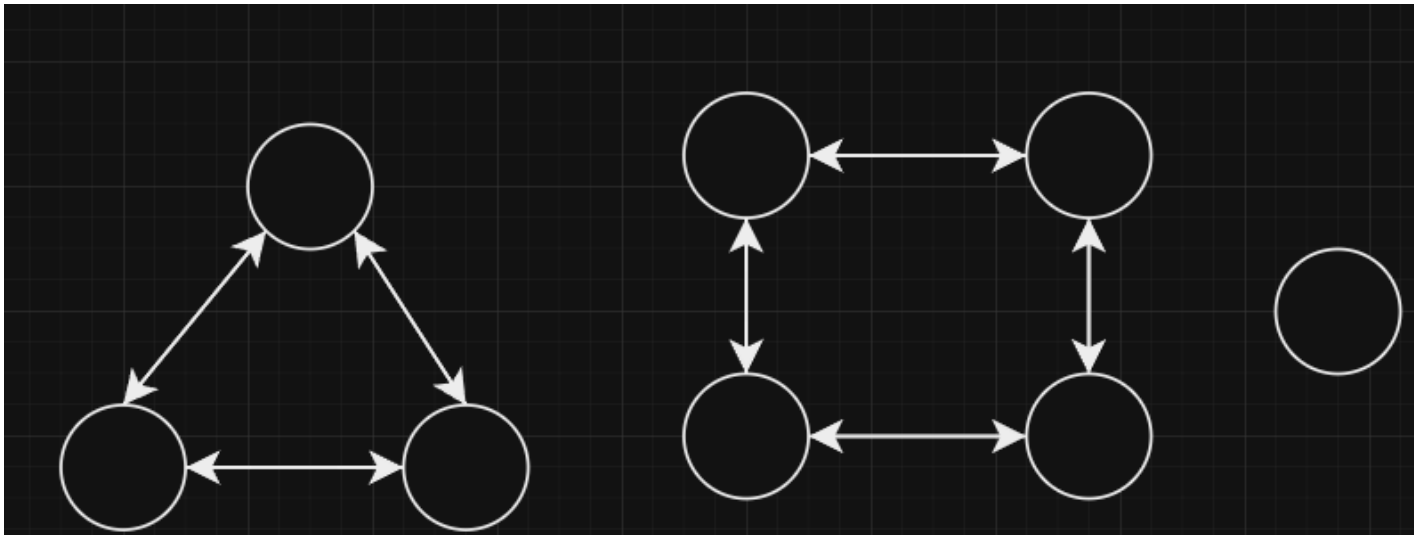
c

0 1 0 1 0 0 0 0
1 0 1 1 0 0 0 0
0 1 0 1 1 1 0 0
1 1 1 0 1 0 0 0
0 0 1 1 0 1 0 1
0 0 1 0 1 0 1 1
0 0 0 0 0 1 0 1
0 0 0 0 1 1 1 0

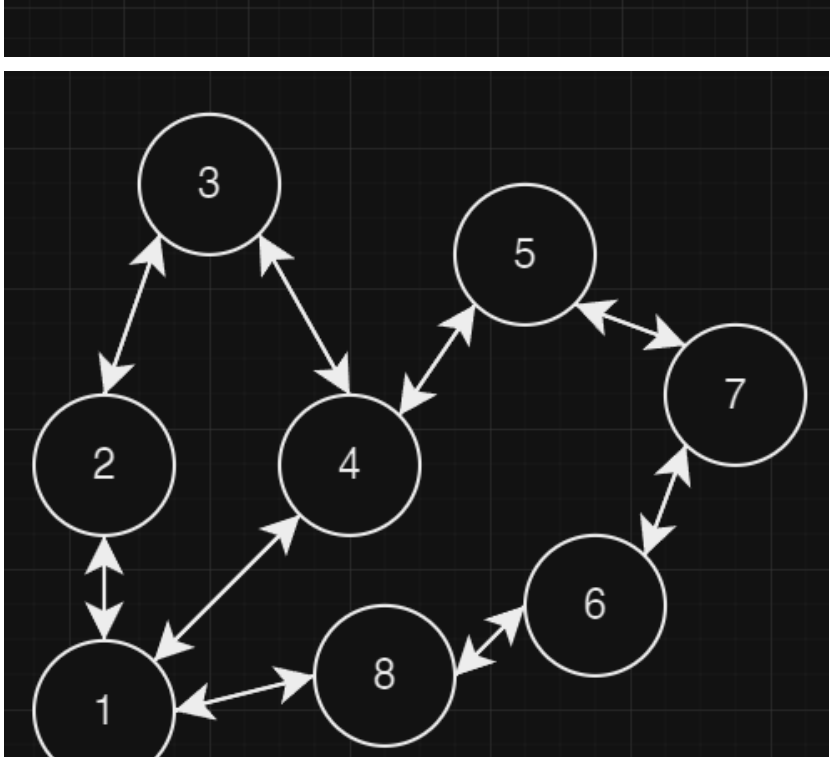
14 $n - 1$, n being the number of vertices. It's because a path requires 2 vertices.



15. a



b



c