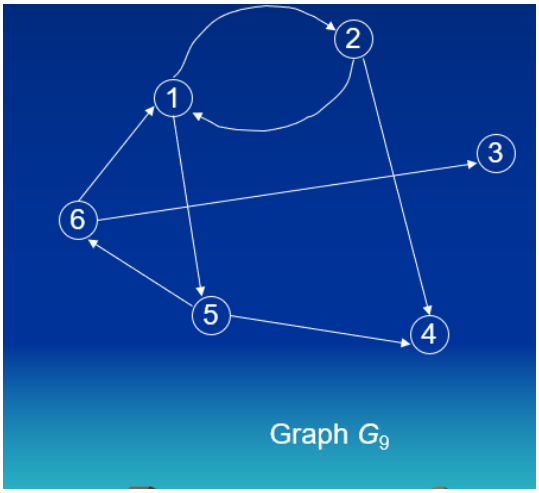
JOSHUA D. ATENCIA

BS CPE 2-1

GRAPH G_9



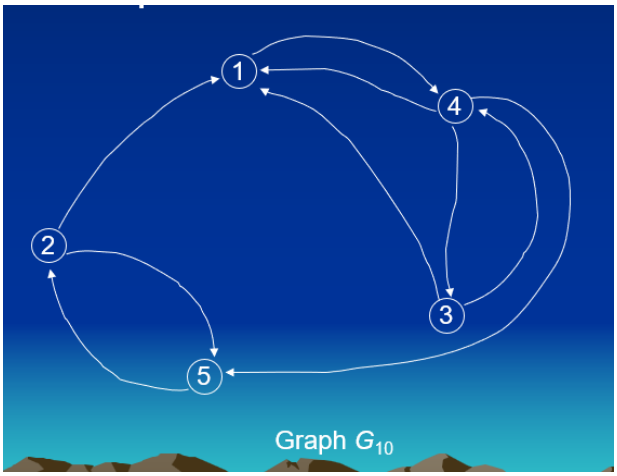
$G_9 = (V_9, E_9)$

$V_9 = \{1, 2, 3, 4, 5, 6\}$

$E_9 = \{(1,2), (1,5), (2,1), (2,4),$
$(5,4), (5,6), (6,1), (6,3)\}$

vertex	Indegree	Outdegree
1	2	2
2	1	2
3	1	0
4	2	0
5	1	2
6	1	2

GRAPH G_{10}

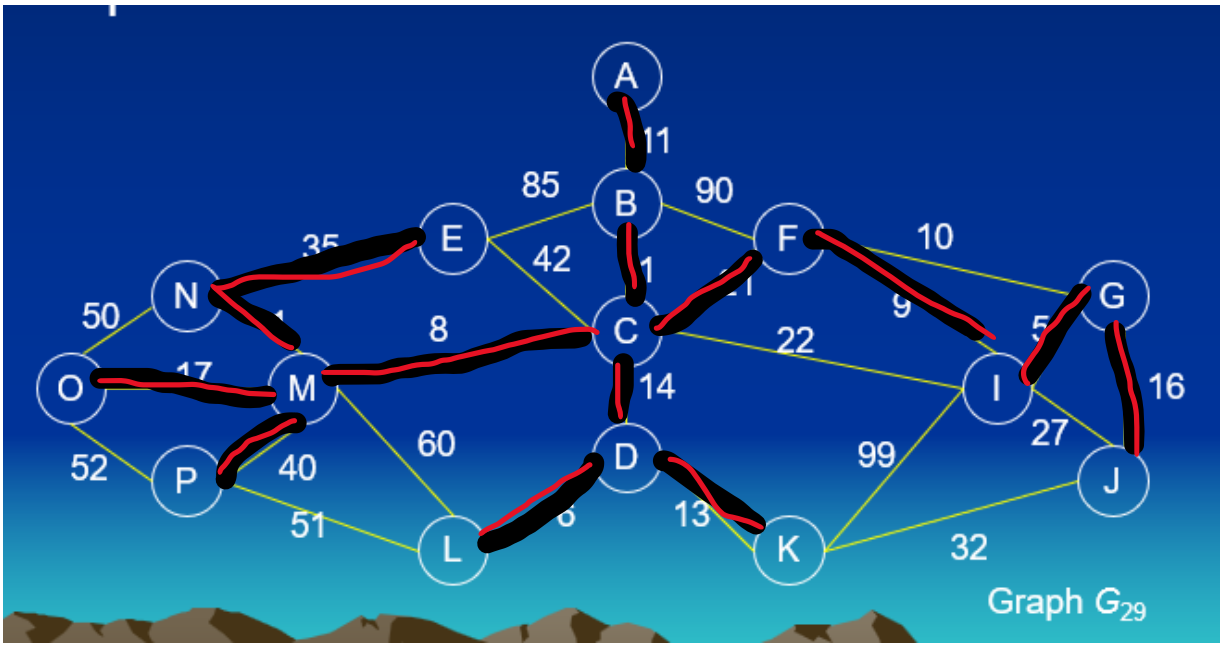


$G_{10} = (V_{10}, E_{10})$

$V_{10} = \{1, 2, 3, 4, 5\}$

$E_{10} =$
$\{(1,4), (2,1), (2,5), (3,1), (3,4), (4,1), (4,3), (4,5), (5,2)\}$

vertex	Indegree	Outdegree
1	3	1
2	1	2
3	1	2
4	2	3
5	2	1



KRUSHKAL'S (BLACK LINE)

E (N, M)	w(N, M)= 1
E (B, C)	w(B, C)= 1
E (G, I)	w(G, I)= 5
E (D, L)	w(D, L)= 6
E (C, M)	w(C, M)= 8
E (F, I)	w(F, I)= 9
E (A, B)	w(A, B)= 11
E (D, K)	w(D, K)= 13
E (C, D)	w(C, D)= 14
E (G, J)	w(G, J)= 16
E (O, M)	w(O, M)= 17
E (C, F)	w(C, F)= 21
E (N, E)	w(N, E)= 35
E (P, M)	w(P, M)= 40
	Min span=197

PRIM'S (RED LINE)

E (A, B)	w(A, B)= 11
E (B, C)	w(B, C)= 1
E (C, D)	w(C, D)= 14
E (D, L)	w(D, L)= 6
E (D, K)	w(D, K)= 13
E (C, M)	w(C, M)= 8
E (M, P)	w(M, P)= 40
E (M, O)	w(M, O)= 17
E (M, N)	w(M, N)= 1
E (N, E)	w(N, E)= 35
E (C, F)	w(C, F)= 21
E (F, I)	w(F, I)= 9
E (I, G)	w(I, G)= 5
E (G, J)	w(G, J)= 16
	Min span=197