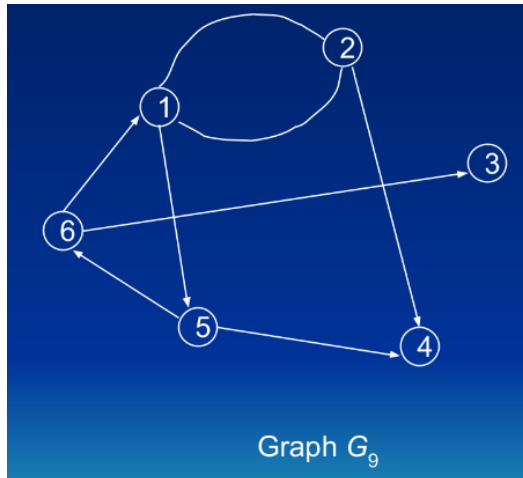


Graph 09



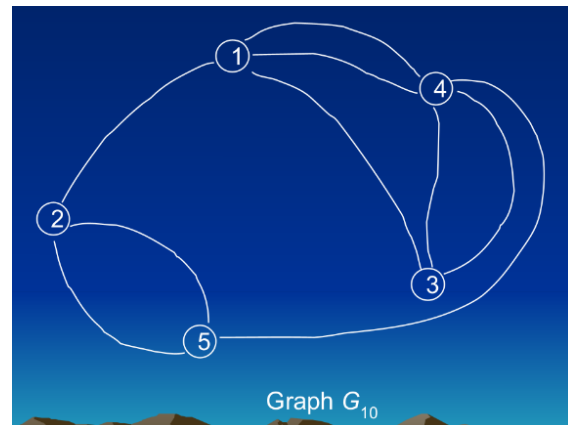
$$G_9 = (V_9, E_9)$$

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

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

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

Graph 10



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

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

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

V	Outdegree	Indegree
1	1	3
2	1	1
3	2	1
4	3	2
5	1	2

# Graphs (cont'd.)

Graphs

Kruskal

Graph  $G_{26}$

# Graphs

Prim's

Graph  $G_{29}$

## KRUSKAL'S ALGORITHM

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

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