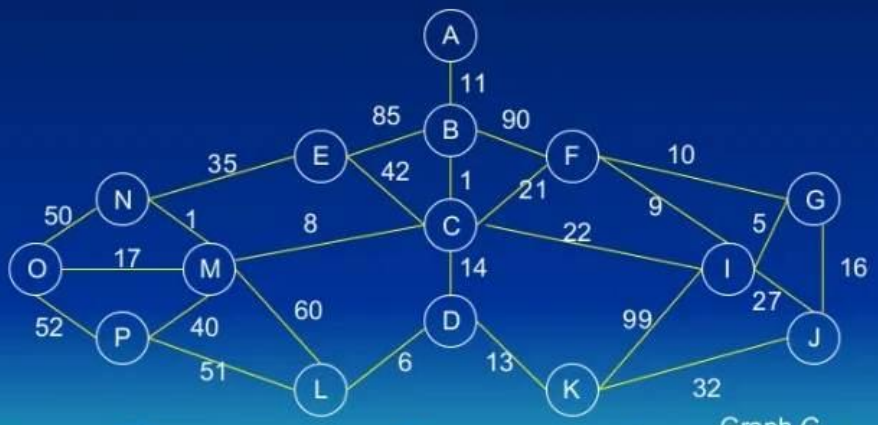
Graphs (cont'd.)

Graphs



Graph G_{29}

Kruskal

w (A, B) = 11
w (B, E) = 85
w (E, N) = 35
w (N, O) = 50
w (E, C) = 42
w (C, M) = 8
w (O, P) = 52
w (L, P) = 51
w (D, L) = 6
w (B, F) = 90
w (F, G) = 10
w (G, J) = 14
w (J, K) = 32
w (K, I) = 13
501

Prim's

(E, C) = 42
(F, C) = 21
(D, C) = 14
(C, I) = 22
(F, I) = 9
(I, J) = 27
(G, J) = 14
(I, K) = 99
(J, K) = 32
(L, M) = 60
(M, P) = 40
(D, L) = 6
(L, P) = 51
(P, O) = 52
(M, C) = 8
(M, N) = 1
501

Graphs (cont'd.)

Exercise

Give the formal description of the directed graph below.

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

Graph G_{10}

The set of nodes in graph below is (1,4,5,2,3) There are 9 arcs; like 1-4, 4-3 and so on. The visual depiction of the graph indicate which arcs connect with nodes and the absence of the image, we require a clear method of expressing this data.