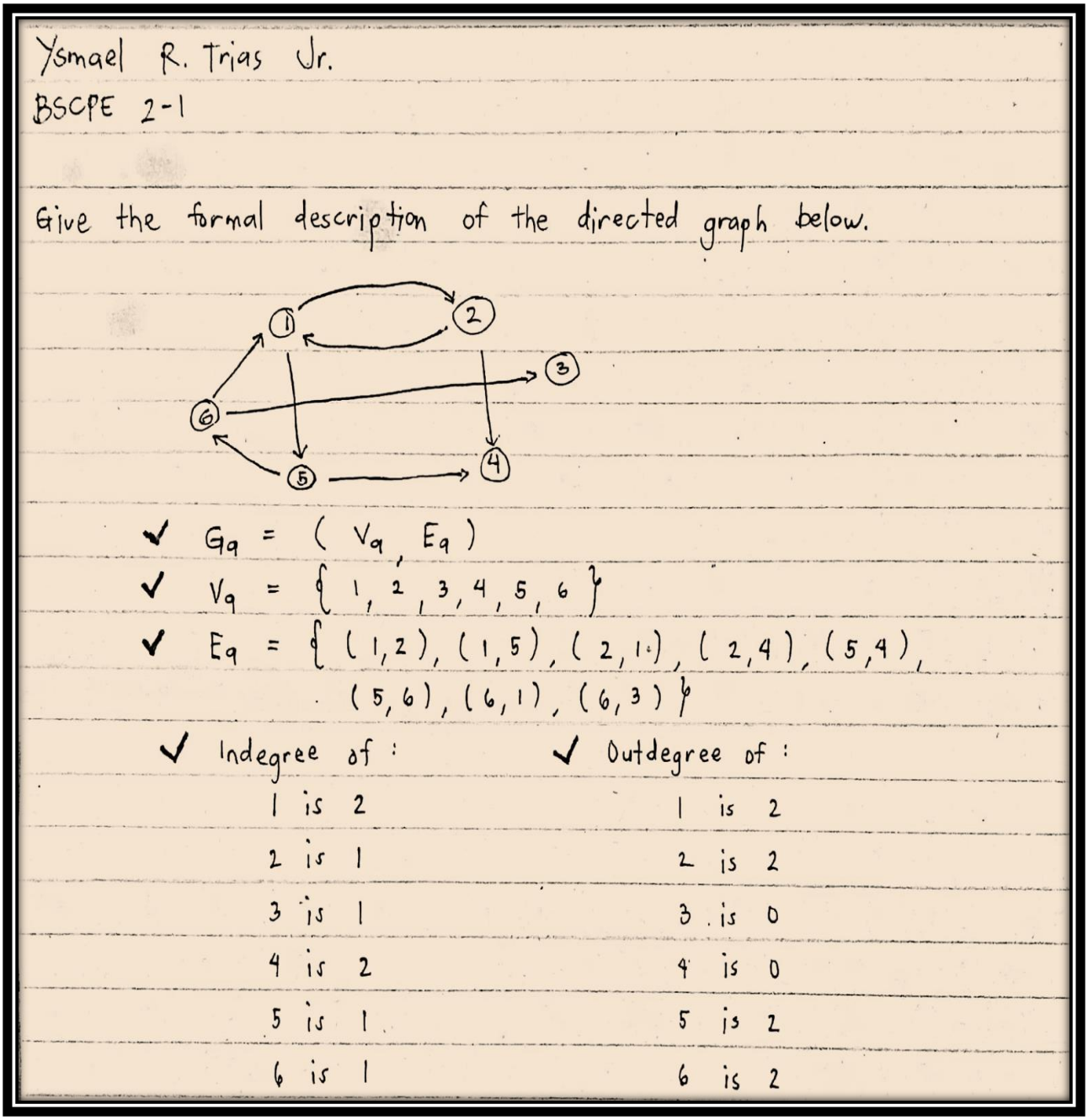
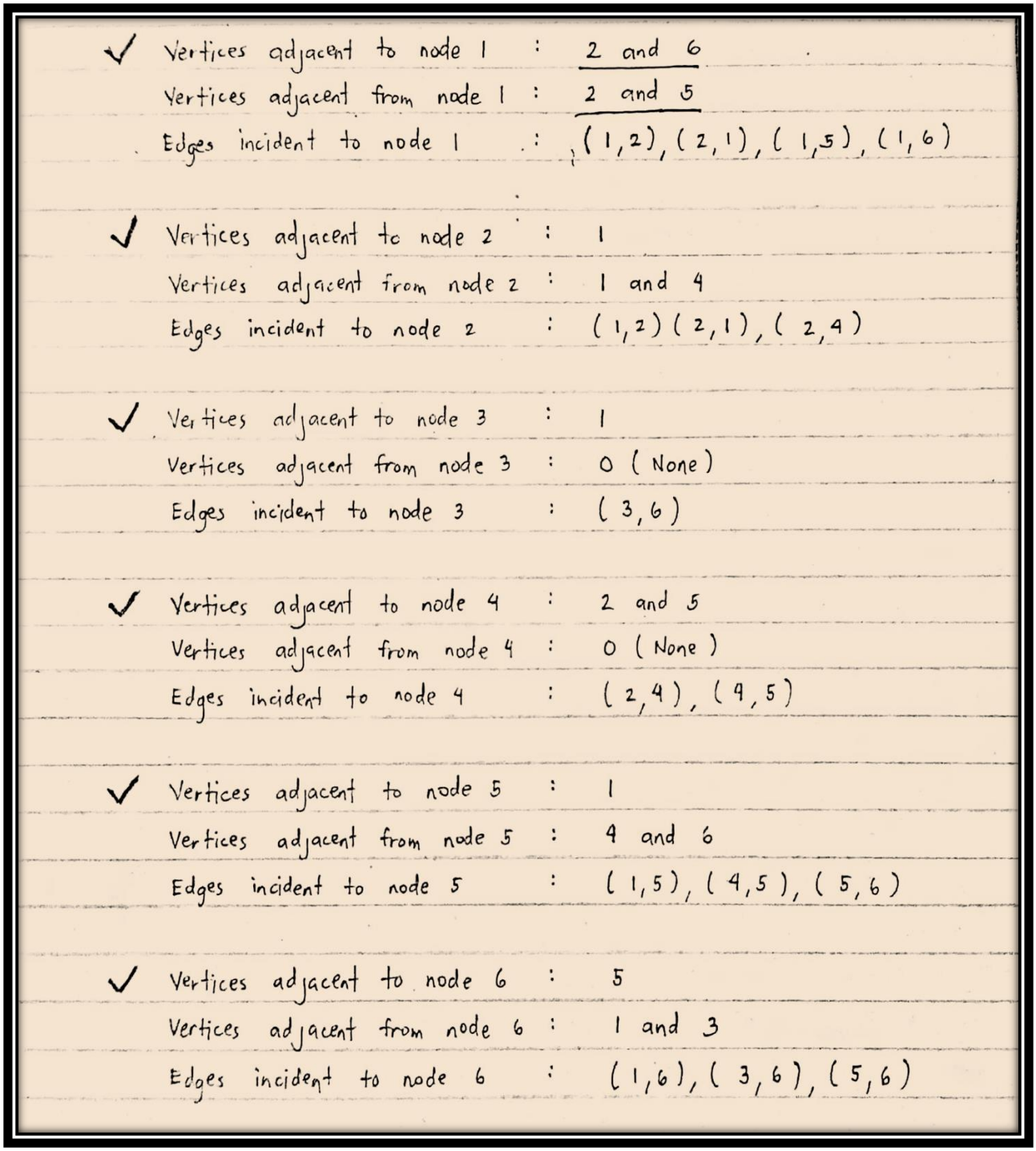
Ysmael R. Trias Jr

BSCPE2-1

Give the formal description of the directed graph below.

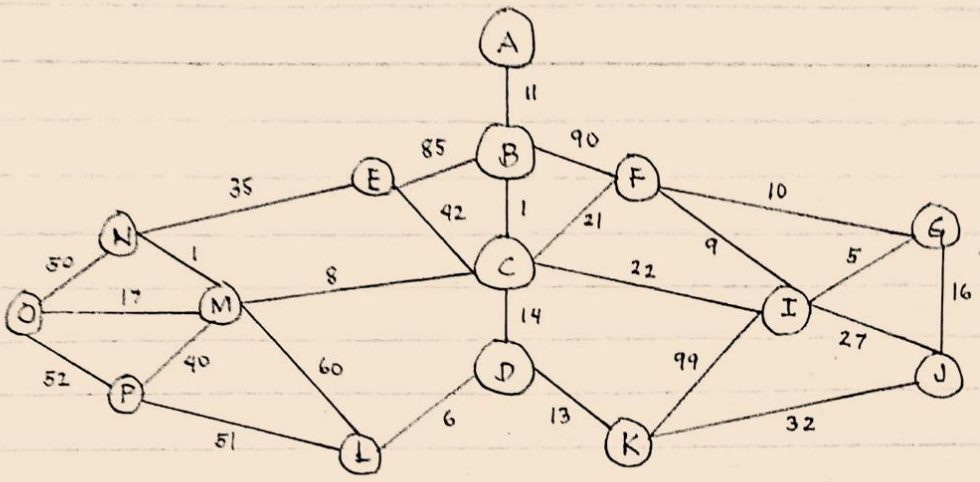


Vertices **adjacent to**, **adjacent from** and **incident to** nodes 1, 2, 3, 4, 5, and 6.



Kruskal's and **Prim's** Algorithm of the graph below.

Minimum Spanning Tree



Kruskal's algorithm :

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

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Prim's algorithm :

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

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Minimum Spanning Tree: