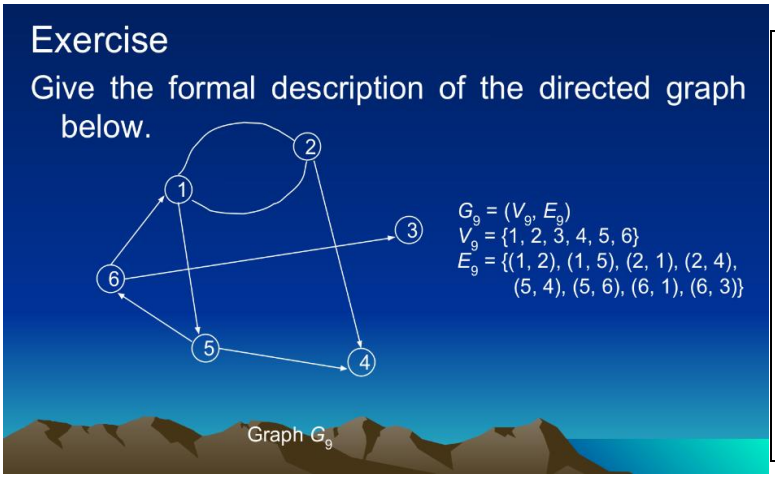
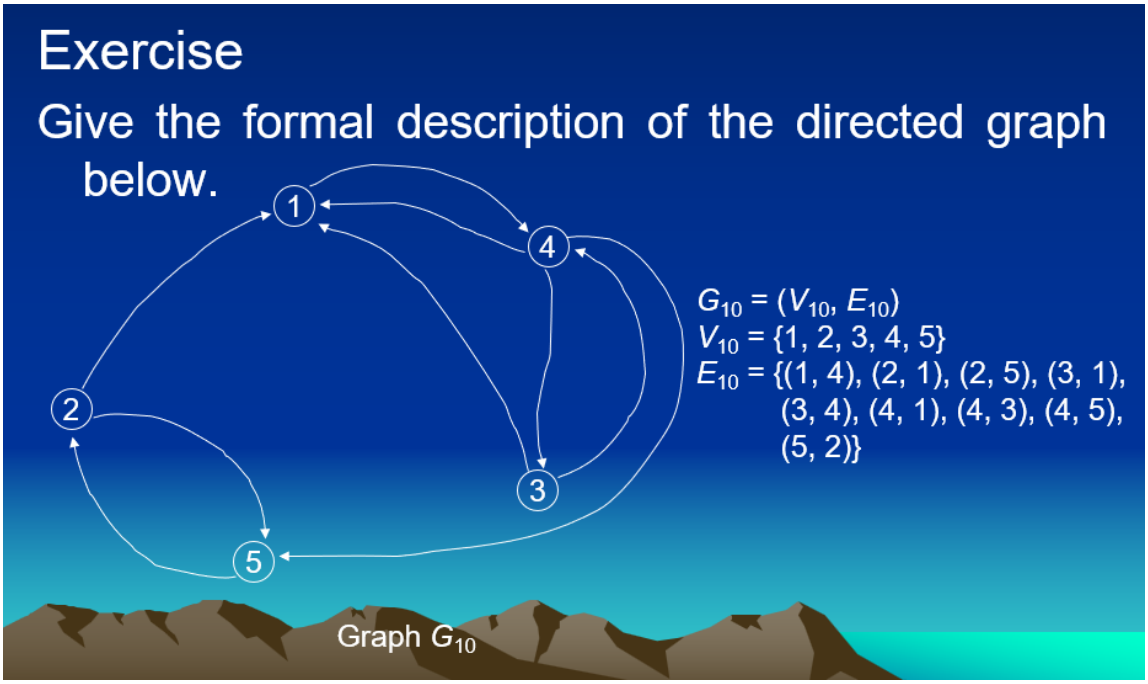
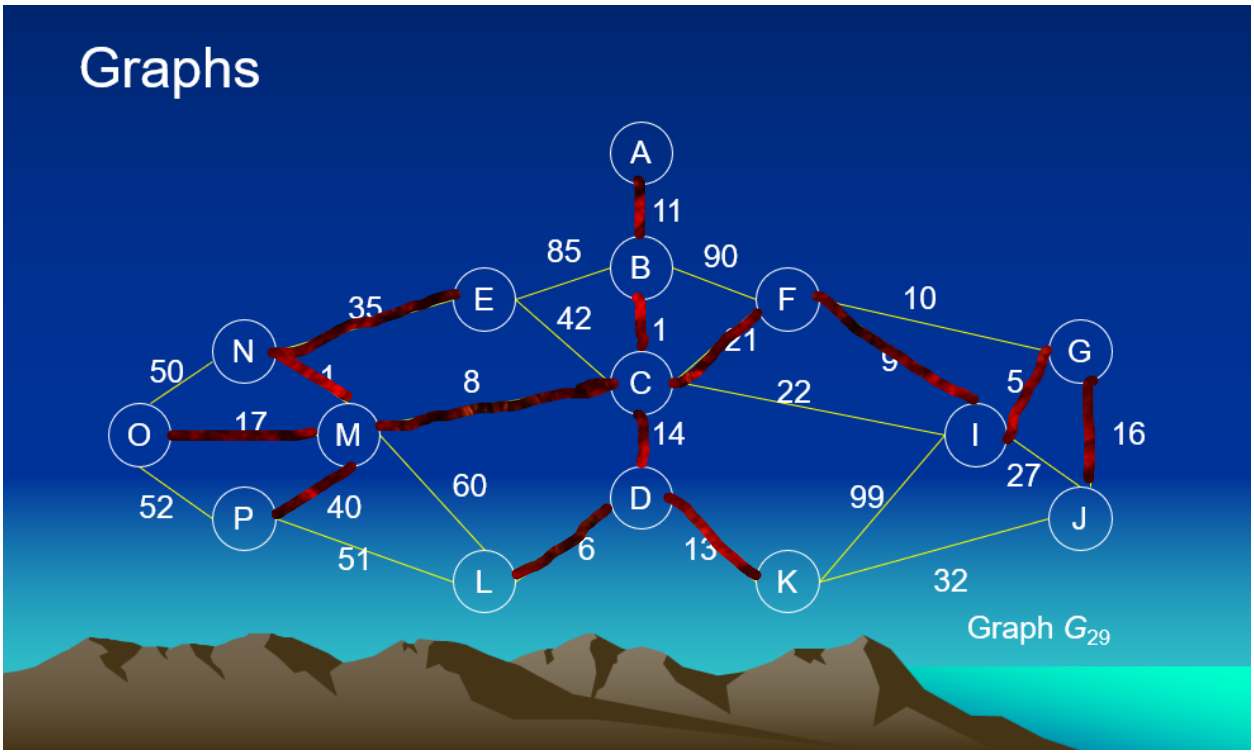
1. Three properties of a tree:
    - Have node, branch, leaves
    - A connected, undirected graph that is acyclic.
    - A tree is a forest, but a forest is not a tree.
2. Yes
3. Root
4. One
5. Yes
6. 13, 6, 60
7. 7
8. None
9. 4, 12, 7, 22
10. 13, 6, 60, 23, 21
11. 23, 6, 21, 20, 9, 1
12. 22, 16, 7, 13, 60, 12, 4
13. 3
14. 3
15. 4
16. 6
17. No
18. No
19. No
20. No
21. Yes
22. n^h
23. $\log_n m$
24. $\frac{n^h-1}{n-1}$
25. $n^h - 1$



Indegree:	Outdegree:
1 is 2	1 is 2
2 is 1	2 is 2
3 is 1	3 is 0
4 is 2	4 is 0
5 is 1	5 is 2
6 is 1	6 is 2



Indegree:	Outdegree:
1 is 3	1 is 1
2 is 1	2 is 2
3 is 1	3 is 2
4 is 2	4 is 3
5 is 2	5 is 1



Kruskal's Algorithm: Total = 197

w(b,c) = 1

w(n,m) = 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

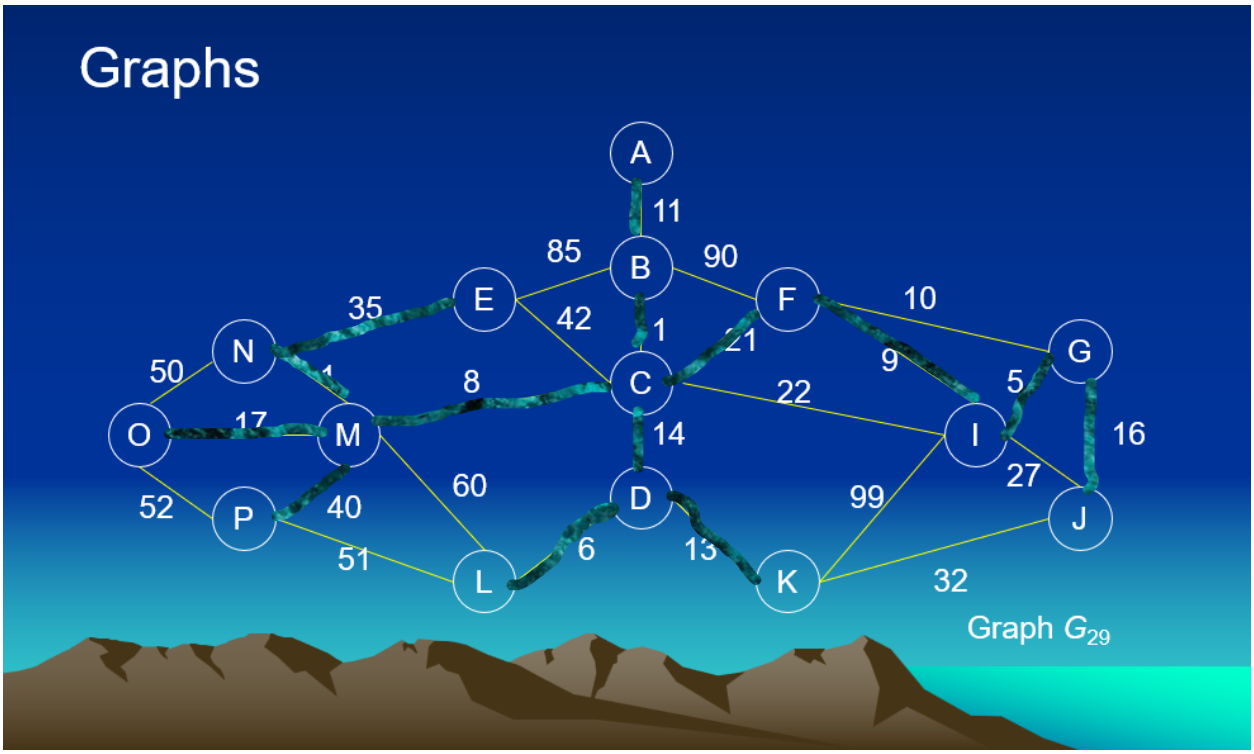
w(g,j) = 16

w(o,m) = 17

w(c,f) = 21

w(e,n) = 35

w(m,p) = 40



Prim's Algorithm: Total = 197

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(i,g) = 5

w(g,j) = 16

w(e,n) = 35

w(m,p) = 40