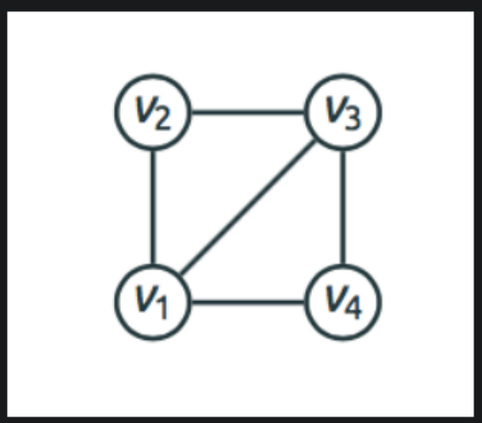
1. 1 / 1 point

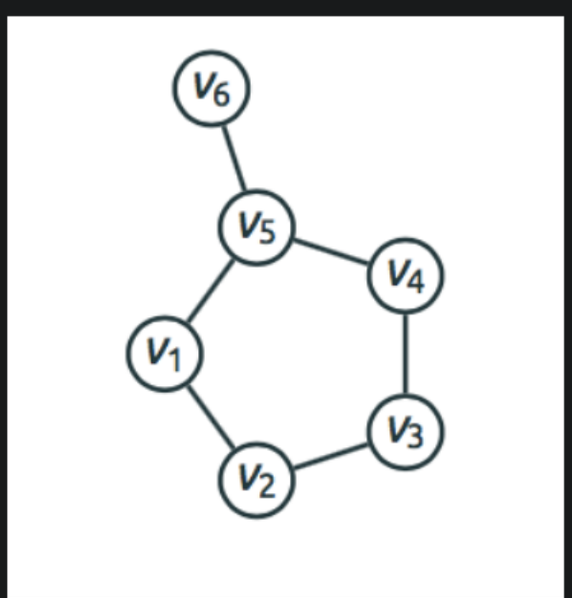


Is this a complete graph?

- ○ Yes
- ◉ No

Correct
Correct, there is no edge between v_2 and v_4, thus, this graph is not complete.

2. 1 / 1 point



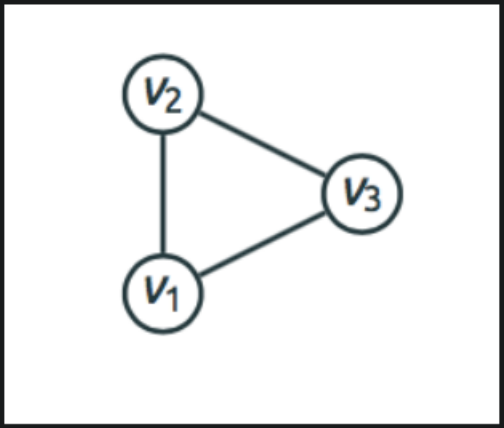
Is this a tree?

- ◉ No
- ○ Yes

Correct
Correct, this graph contains a cycle $(v_1, v_2, v_3, v_4, v_5, v_1)$, so it's not a tree.

3.

2 / 2 points



This graph is

- [ ] a tree
- [x] a cycle

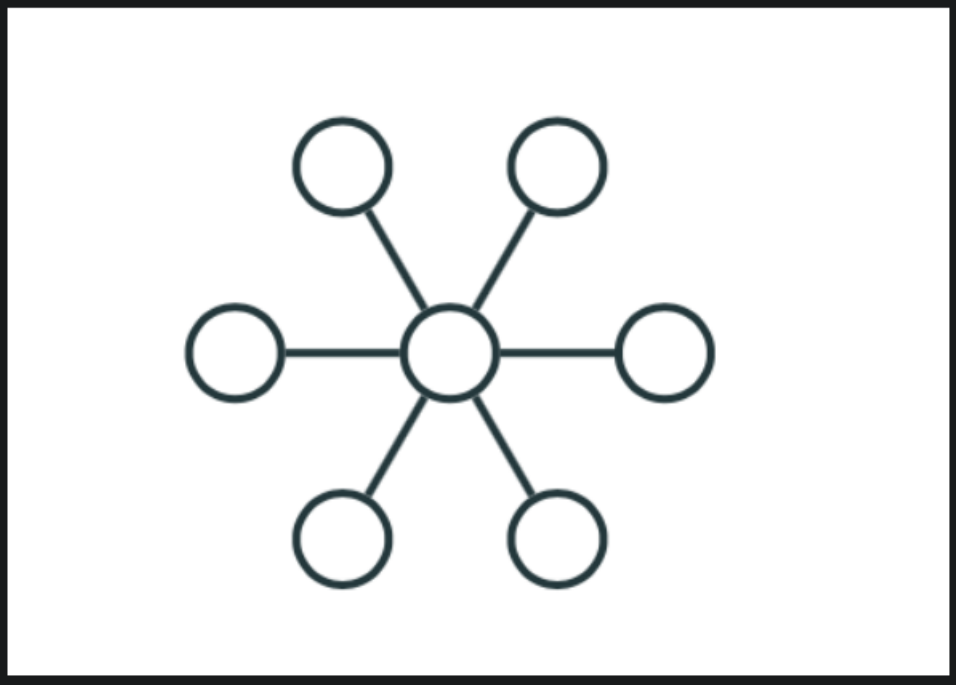
Correct
Yes, this is the cycle on three vertices.

- [ ] bipartite
- [x] complete

Correct
Correct, there is an edge between every pair of vertices.

4.

2 / 2 points



This graph is

- [x] bipartite

Correct
Yes, one part of this graph contains only the central vertex, while the other part contains all the remaining vertices. Every edge connects two vertices from different parts.

- [ ] a path
- [x] a tree

Correct
Yes, this is a connected graph without cycles.

- [ ] a cycle