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Week 10 Quiz

Question 1

1 point possible (graded)

What will the following code print?

```
import networkx as nx
G = nx.Graph()
nodes = [1,2,3,4,5]
edges = [(1,2),(2,3),(1,3),(5,4),(3,4),(4,5)]
G.add_edges_from(edges)
G.number_of_edges()
```

Submit

You have used 0 of 2 attempts

Question 2

1 point possible (graded)

Consider the following code and, from the options below, select what it will print:

```
import networkx as nx
from networkx.algorithms.distance_measures import center
G = nx.Graph()
edges = [(1,2),(2,3),(1,3),(3,4),(4,1),(5,2)]
G.add_edges_from(edges)
print(center(G))
```

☐ [1, 3]

☐ [1, 2, 3]

☐ [3]

☐ [1, 2, 3, 4]

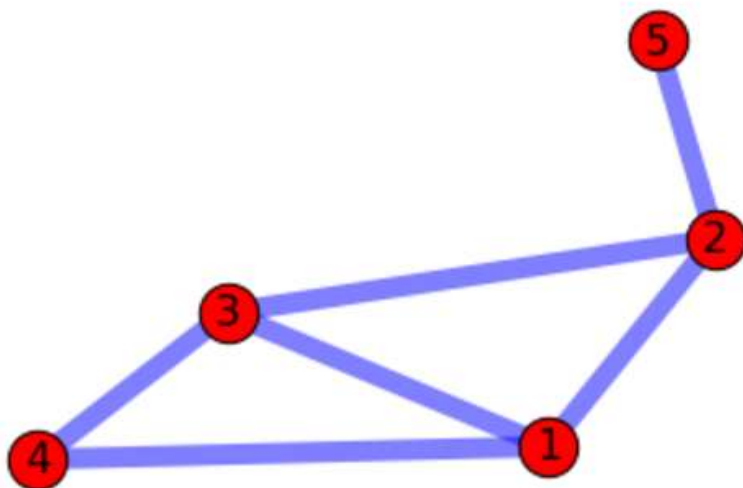
Submit

You have used 0 of 1 attempt

Question 3

1 point possible (graded)

How many cliques are present in the network below?



You have used 0 of 1 attempt

Question 4

1 point possible (graded)

If the primary interest in a network was to keep it running so that the most number of nodes can be kept connected to the rest of the network, the focus of the network manager should be in identifying nodes that :

☐ have the highest betweenness centrality

☐ have the highest communicability

☐ have the highest closeness centrality

☐ are on the periphery

You have used 0 of 1 attempt

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