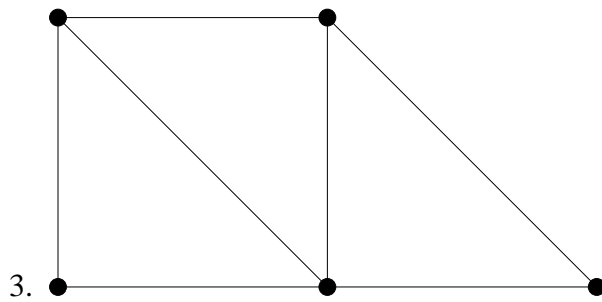
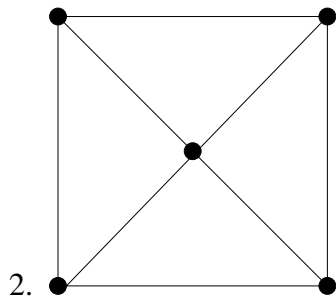
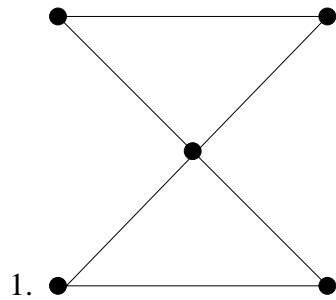
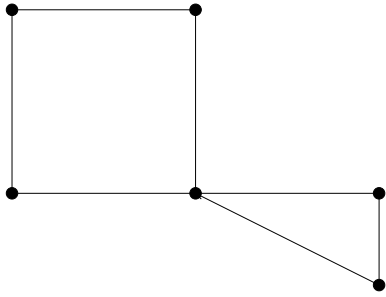
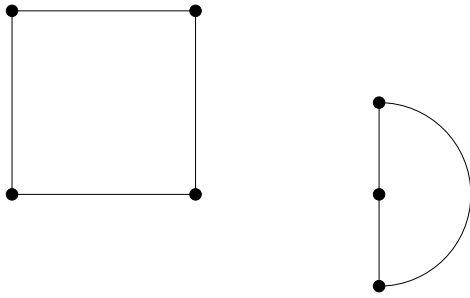


Which of the following graphs is Eulerian? Of those that do not have a closed edge path, which have an open edge path?





4.



5.

Note. An *odd* vertex is a vertex of odd degree, and an *even* vertex is a vertex of even degree.

1. All the vertices of this graph are even, so it is Eulerian.
2. This graph has four odd vertices, so it does not even have an open edge path.
3. This graph has exactly two odd vertices, so it has an open edge path but not a closed edge path. See if you can find an edge path starting at one of the odd vertices and ending at the other.
4. All the vertices of this graph are even, so it is Eulerian.
5. Although all the vertices of this graph are even, it is not connected, so it doesn't even have an open edge path.