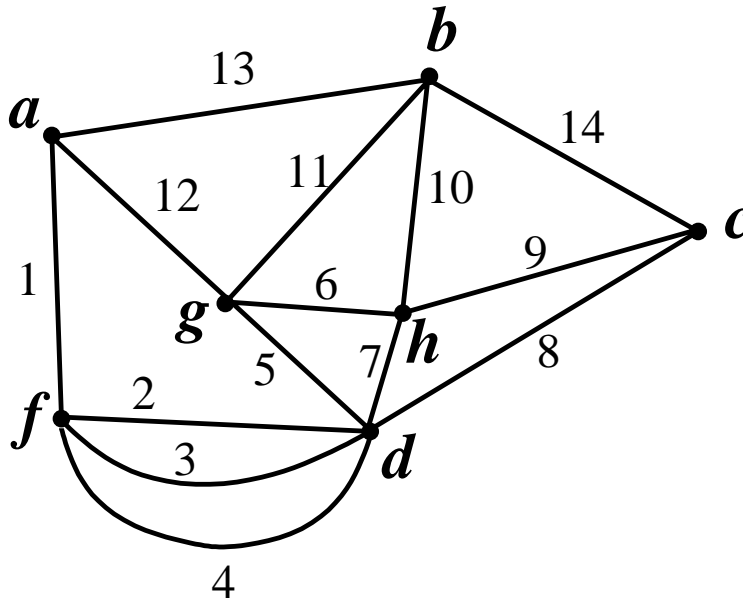


Math 213, Quiz 10 (Solution); Friday, April 18, 2008

1.

Determine if the following graph has an Euler circuit, an Euler path or neither. Justify your answer.

If an Euler circuit or an Euler path exists, find it.



Solution.

The graph has no Euler circuits since the graph has some vertices of odd degrees. The graph does have an Euler path since there are exactly two odd-degree vertices, namely a and c . Every Euler path has to go from a to c or from c to a .

An Euler path from a to c is shown in the figure above.