Concept – Traversable Graphs

A traversable graph is one which has a _____

Once you have established if a graph is traversable there are a couple of different things you can look for.

A Eulerian trail
A Eulerian circuit
Even if a graph is not traversable, it may have a Hamiltonian path or cycle.
A Hamiltonain path
A Hamiltonian cycle
Eulerian trails and circuits are concerned with whereas Hamiltonian paths
and cycles are about

How to

One way to see if a graph is traversable is with trial and error. However it is often quicker and easier to follow this flowchart.



Worked Example

Find two graphs, one which is traversable and identify a Eulerian trail and circuit, and one which is not traversable but has a Hamiltonian path and/or cycle.