Understanding Graph Theory
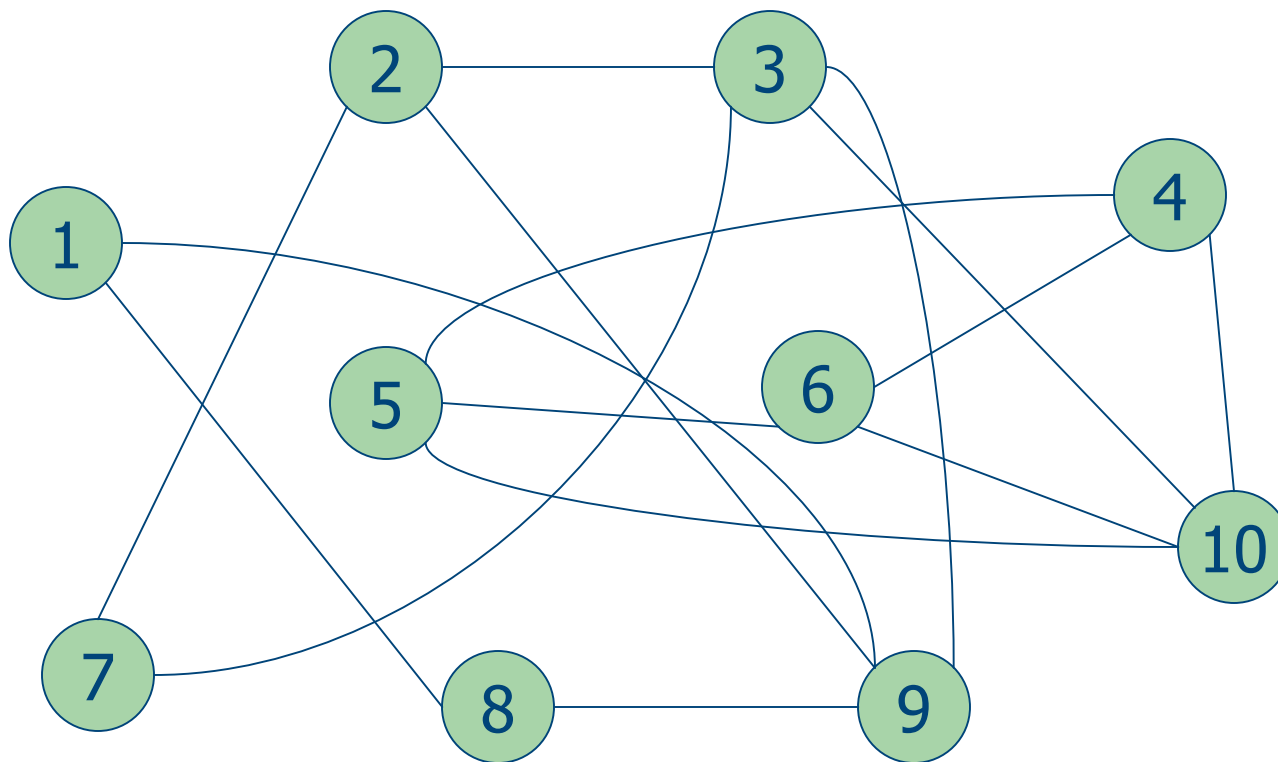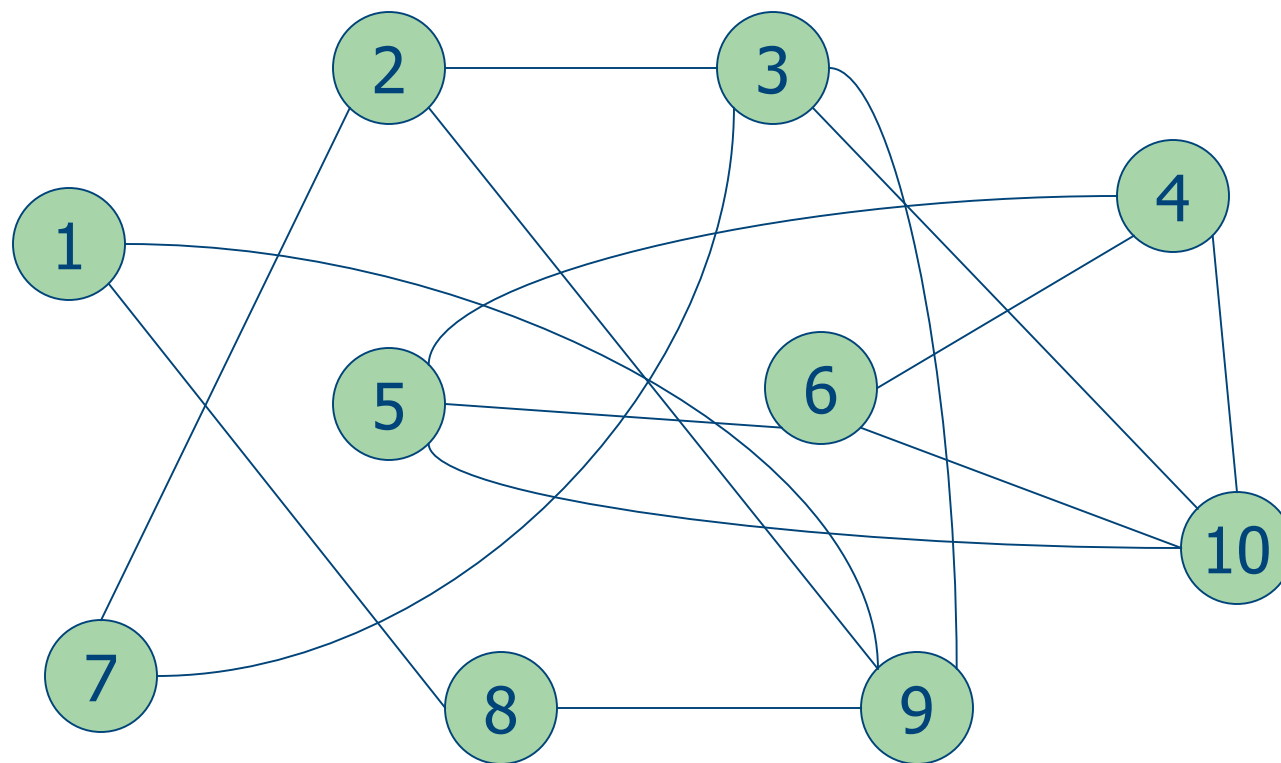

Given this graph, there are no apparent clusters.

Understanding Graph Theory

However, suppose we "untangle" the web.

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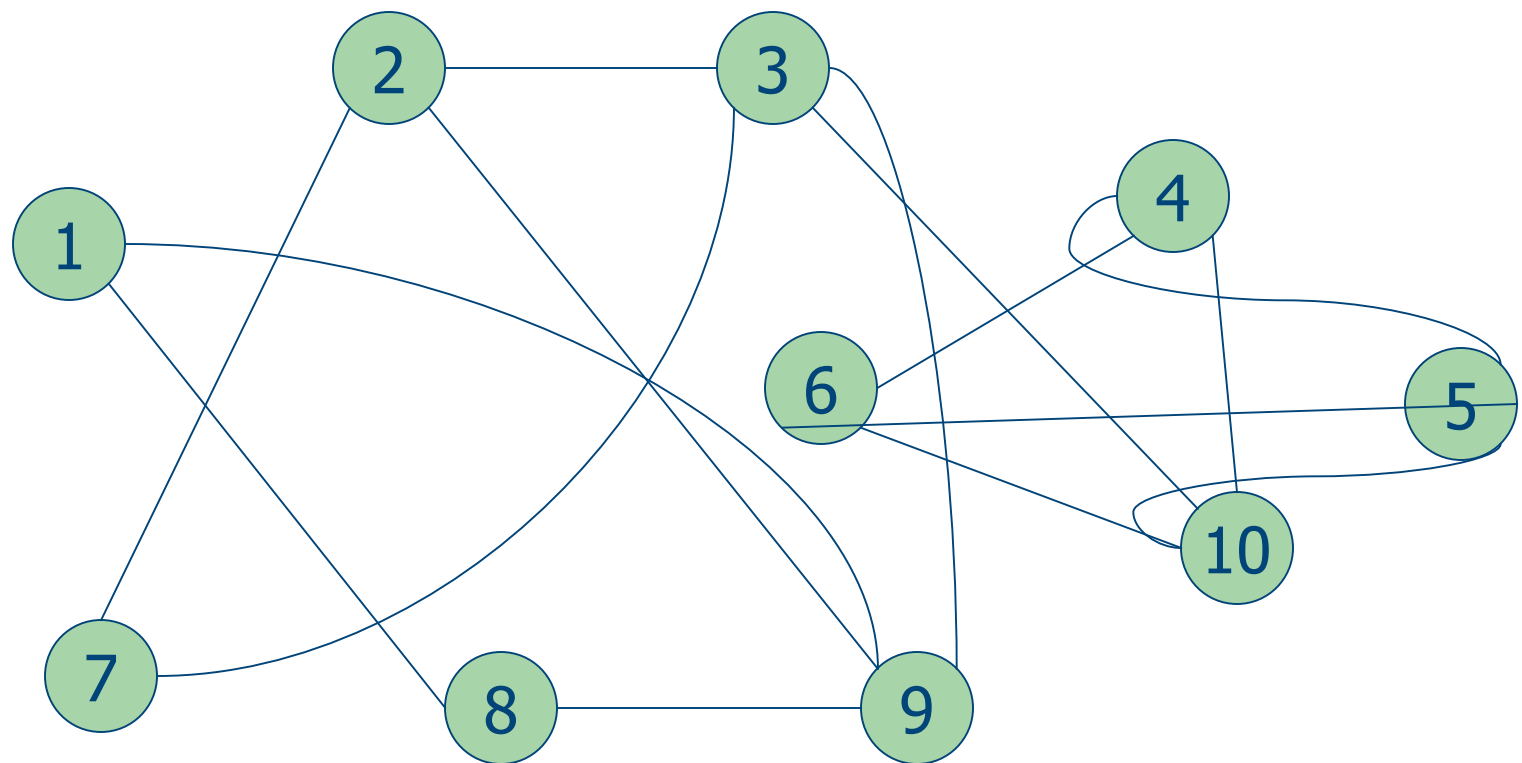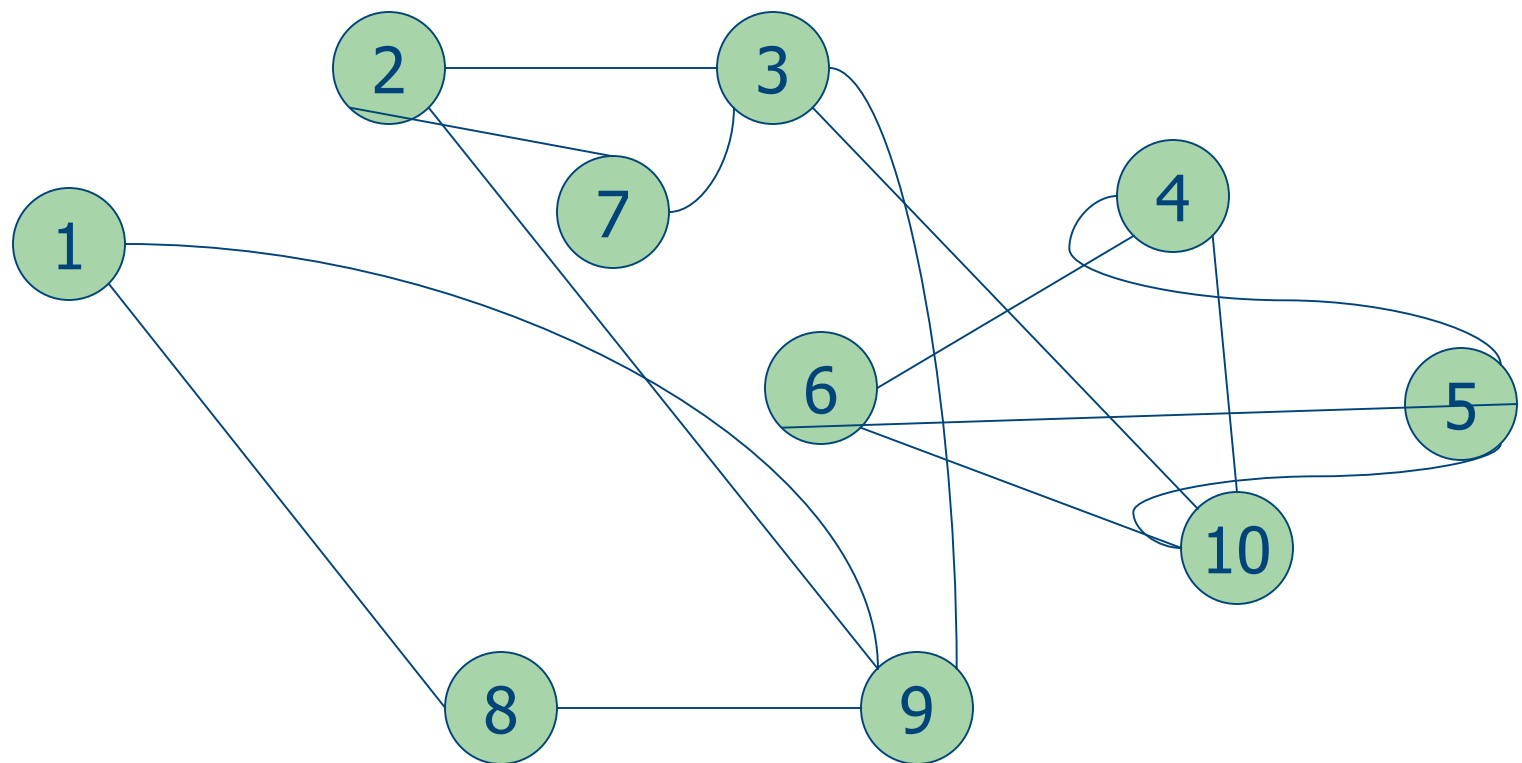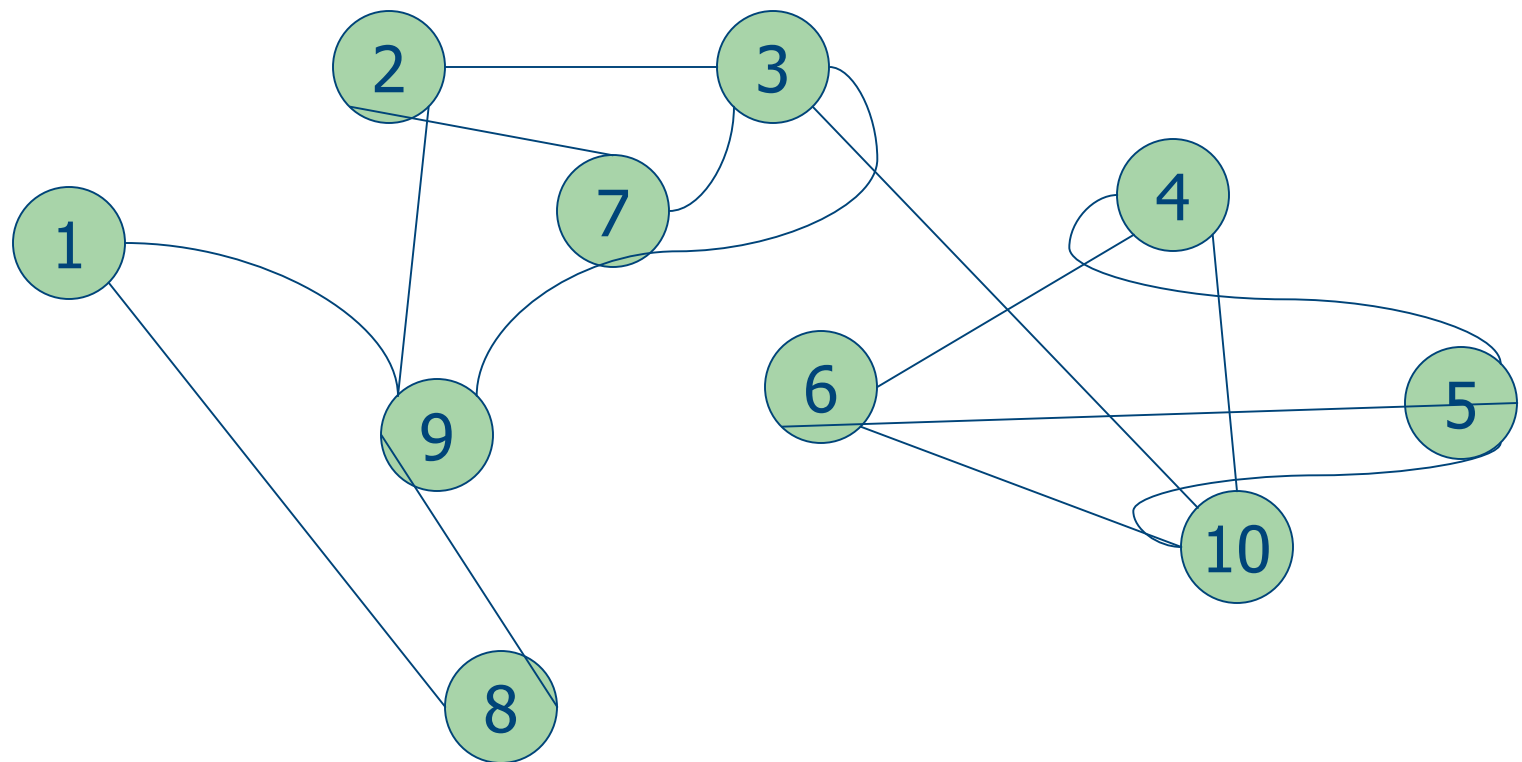# Understanding Graph Theory

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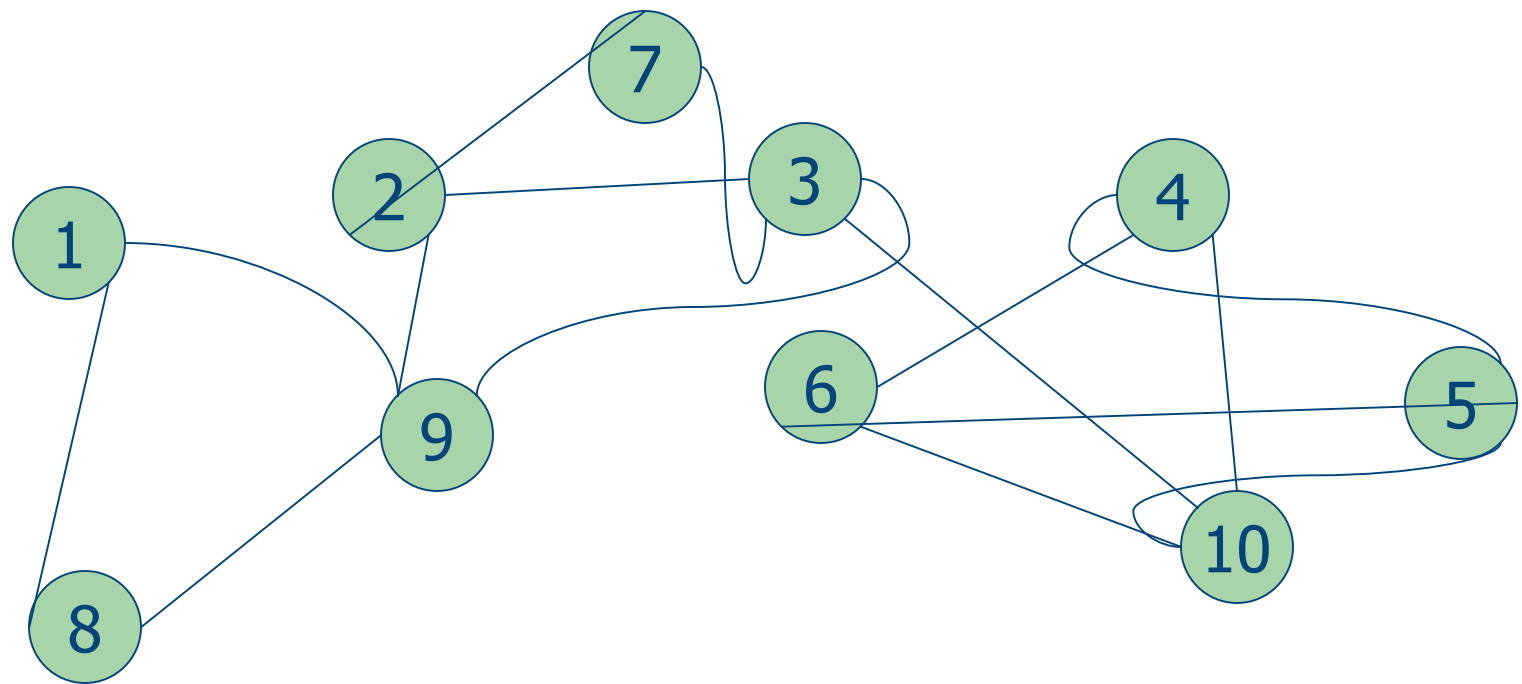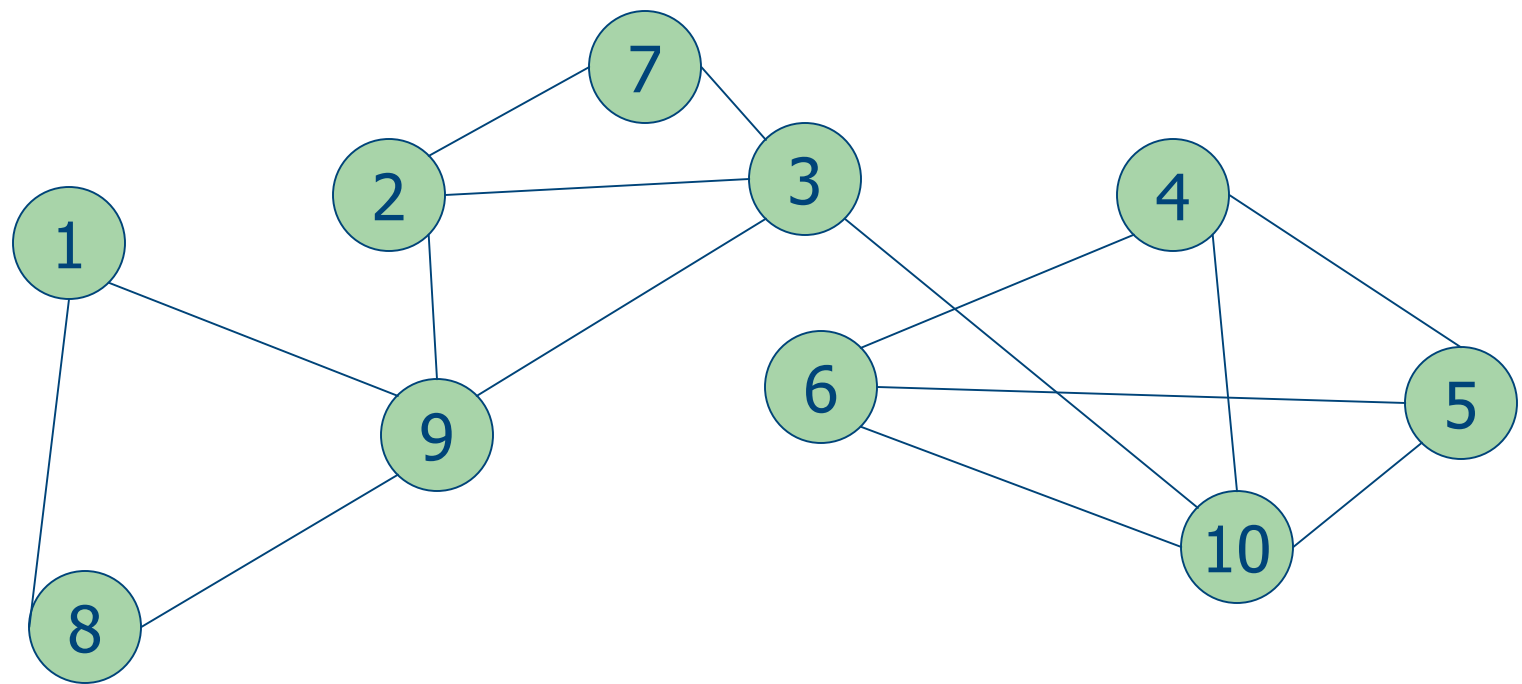
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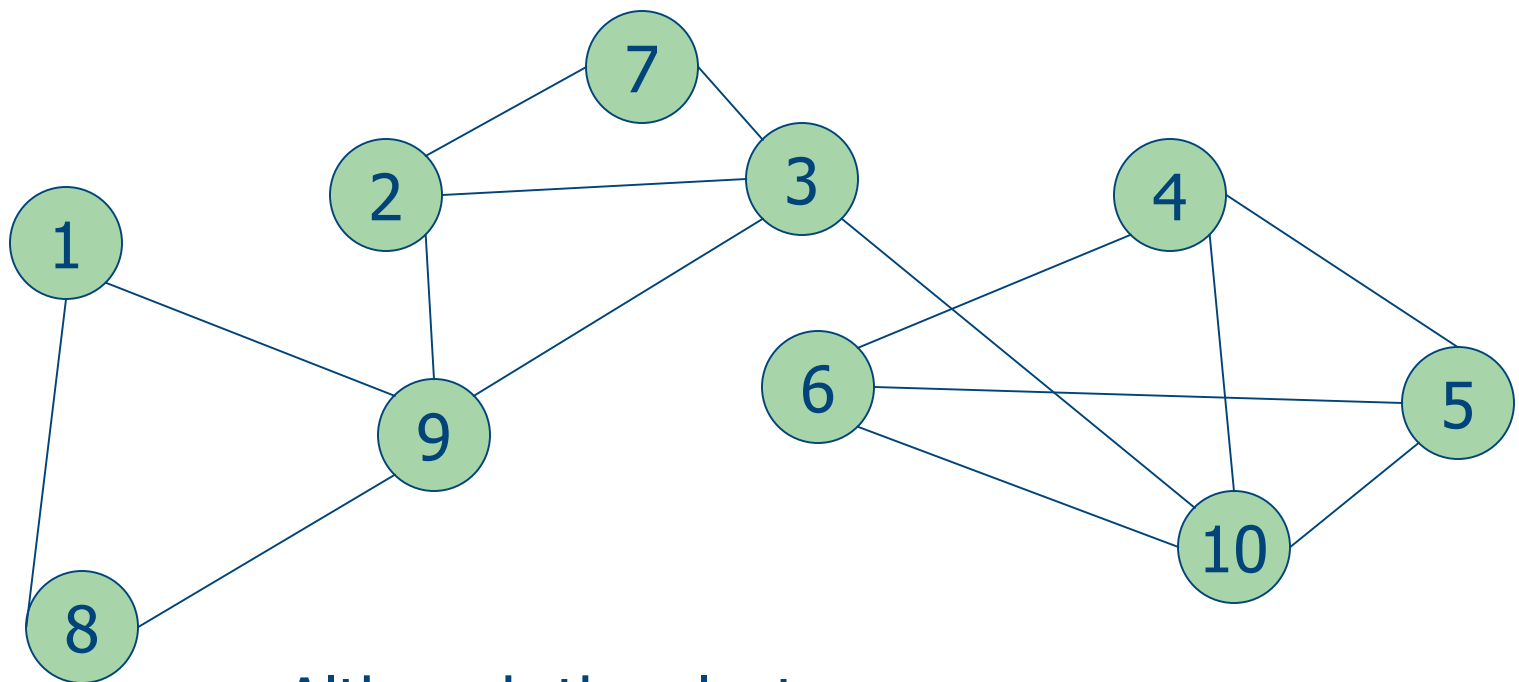
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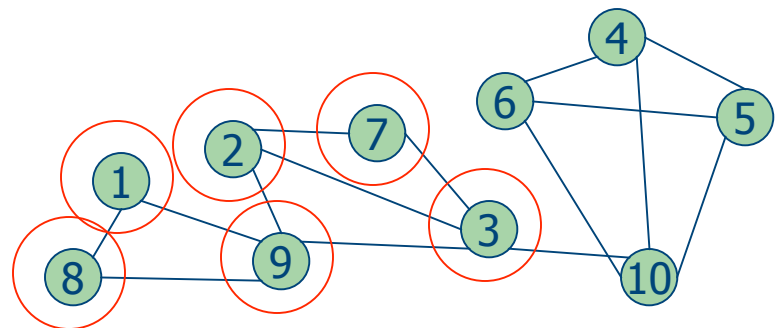
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Although the clusters are now apparent, we need a better method.

Using the Fiedler Vector

- Generally, v_2 is recursively used to partition the graph by separating the components into negative and positive values.

$$\text{sign}(V_2)=[-, -, -, +, +, +, -, -, -, +]$$

A Fiedler Clustering Example