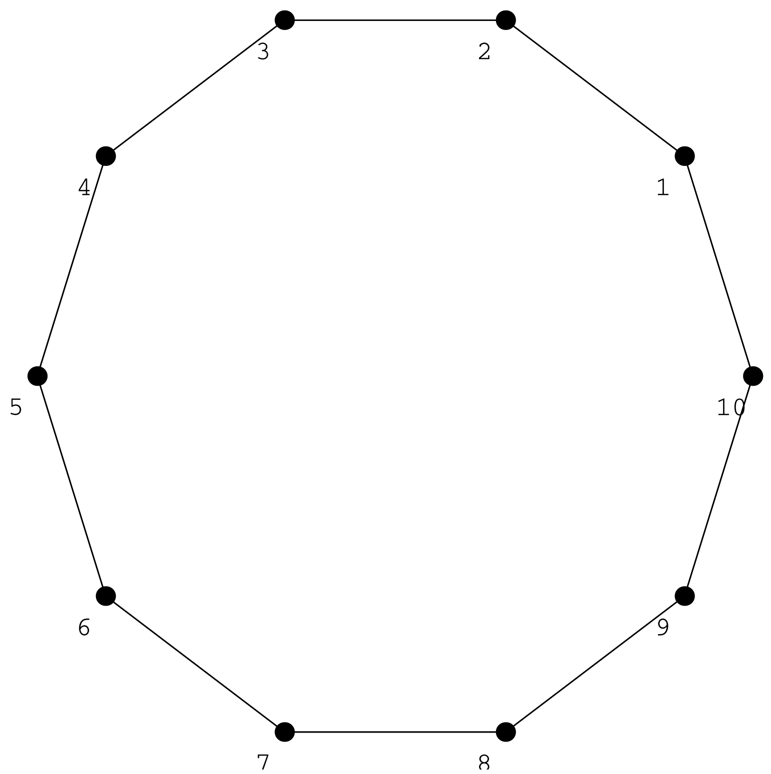
Graphen

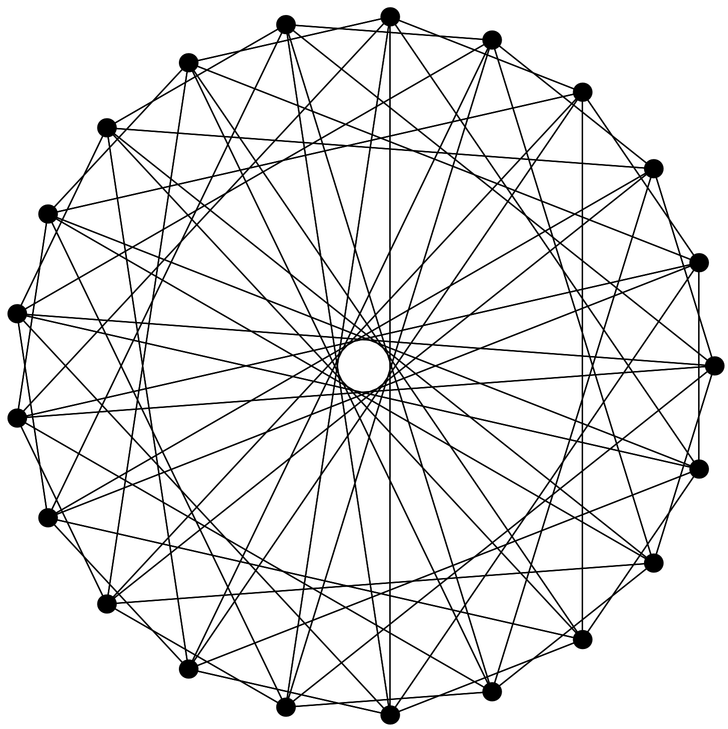
```
<< DiscreteMath`Combinatorica`
```

```
ShowLabeledGraph[OrientGraph[Cycle[10]]]
```



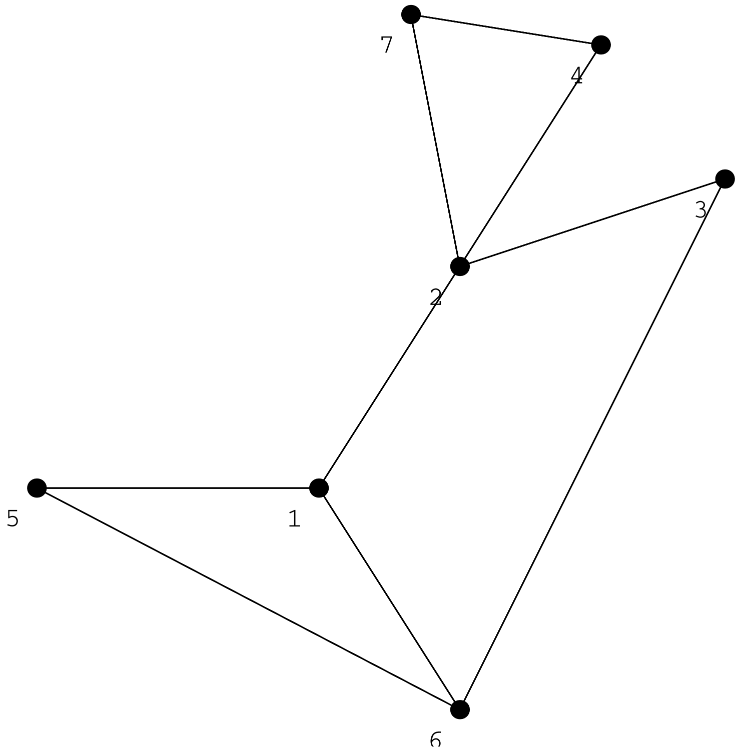

```
- Graphics -
```

```
ShowGraph[
 CirculantGraph[21,
 RandomKSubset[Range[10], 3]]];
```



Depth First Search

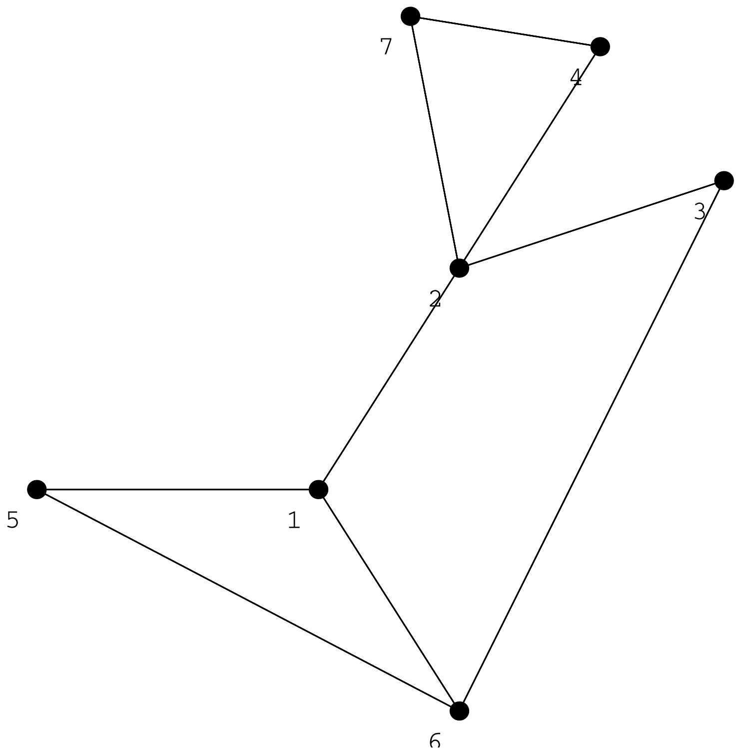
```
G = FromUnorderedPairs[{
{1, 2}, {1, 5}, {1, 6}, {2, 3}, {2, 4}, {2, 7},
{3, 6}, {4, 7}, {5, 6}}];
ShowLabeledGraph[RadialEmbedding[G]]
```




```
- Graphics -
```

■ Präorder– und Postorder–Nummerierung

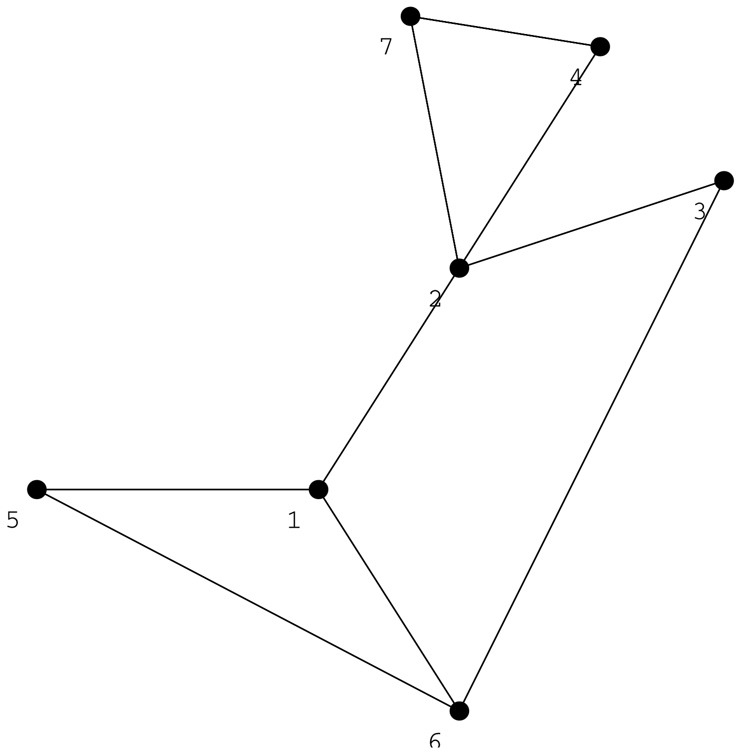
```
ShowLabeledGraph[RadialEmbedding[G]]
```




```
- Graphics -
```

■ Spannbaum

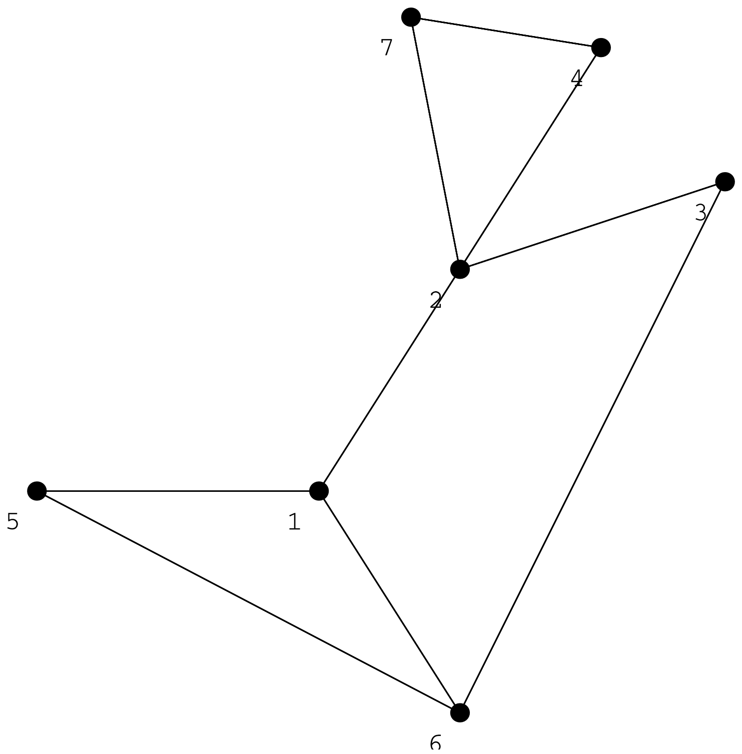
```
ShowLabeledGraph[RadialEmbedding[G]]
```




```
- Graphics -
```

Breadth First Search

```
ShowLabeledGraph[RadialEmbedding[G]]
```




```
- Graphics -
```

```
BreadthFirstTraversal[G, 1]
```

```
{1, 2, 5, 6, 3, 4, 7}
```