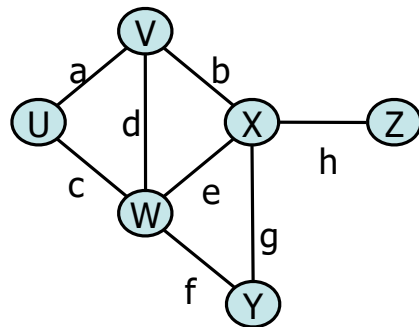


Running times are often reported by **n**, the number of vertices, but often depend on **m**, the number of edges.

How many edges? **Minimum edges:**  
Not Connected:



Connected\*:

**Maximum edges:**  
Simple:

Not simple:

$$\sum_{v \in V} \deg(v) =$$