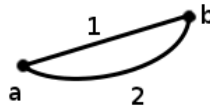


# INSTANT INSANITY BACKGROUND

- A vertex is a point. The plural form of the word is vertices.
- An edge is a line connecting two vertices. When the two vertices are actually the same, we call the edge a loop.



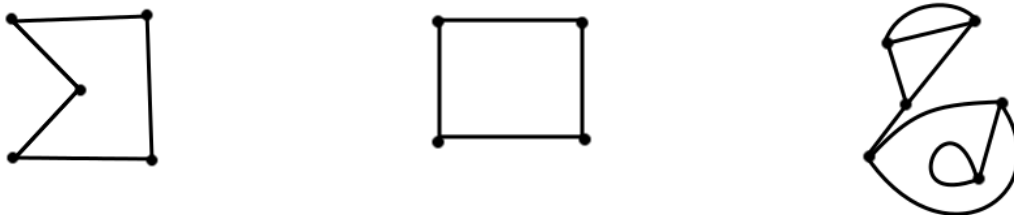
- Edges and vertices can be labeled with letters or numbers for easy reference.



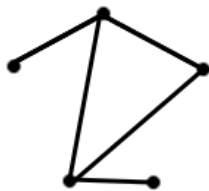
- A graph is a collection of vertices with edges connecting them.



- The degree of a vertex is the number of edges coming out of the vertex. If all the vertices of a graph have the same degree, then we say that the graph has that degree also.



- A subgraph of a graph is a graph made with only some of the vertices and edges of the original graph.



Warmup Exercise:

Draw every possible graph on 4 vertices that has degree two and at least one loop.