- complete graph or clique $K_{n}$ has $n$ vertices, and each pair of vertices is an edge. (for $n \geq 1$ )
- k-cycle $C_{k}$ has vertex set $V=\{1,2, \ldots, k\}$ and edge set $E=\{\{1,2\},\{2,3\} \ldots,\{k-1, k\},\{k, 1\}\}$. (for $k \geq 3$ )
- k-path $P_{k}$ has vertex set $V=\{1,2, \ldots, k, k+1\}$ and edge set $E=\{\{1,2\},\{2,3\} \ldots,\{k, k+1\}\} . \quad($ for $k \geq 1)$

Try it out:

- Draw $K_{5}, C_{5}$, and $P_{5}$
- Identify these graphs:


