



# Graph Theory Knowledge

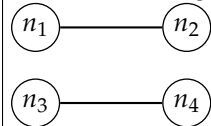
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**1** Let  $G$  be a simple graph with  $n$  nodes. Let  $k$  be the number of edges of  $G$

$$k \leq \frac{n(N-1)}{2}$$

**2** Let  $G$  be the graph:



**3** What is the complement of  $G$ ?