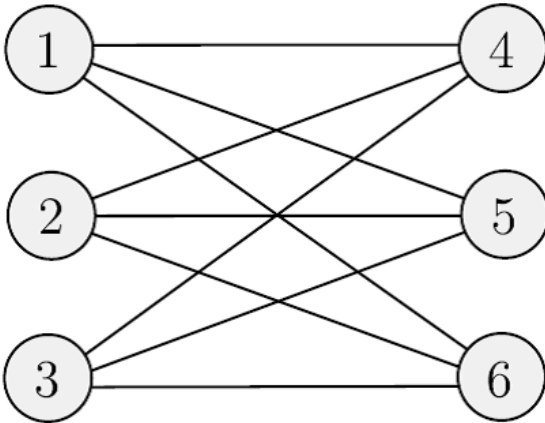


## Problem

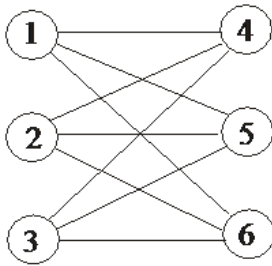
Write a formal description of the following graph.



## Step-by-step solution

### Step 1 of 3

Given graph:



[Comment](#)

### Step 2 of 3

Formal description of the graph is

$(\{1, 2, 3, 4, 5, 6\}, \{(1, 4), (1, 5), (1, 6), (2, 4), (2, 5), (2, 6), (3, 4), (3, 5), (3, 6)\})$

It shows a set of nodes and a set of edges.

[Comment](#)

### Step 3 of 3

In a graph  $G$ , we say  $G = (V, E)$  where  $V$  is the set of nodes and  $E$  is the set of edges.

$V = \{1, 2, 3, 4, 5, 6\}$

$E = \{\{1, 4\}, \{1, 5\}, \{1, 6\}, \{2, 4\}, \{2, 5\}, \{2, 6\}, \{3, 4\}, \{3, 5\}, \{3, 6\}\}$

[Comment](#)