

## Graphs (cont'd.)

### Exercise

Give the formal description of the directed graph below.



$$\begin{aligned}
 G_9 &= (V_9, E_9) \\
 V_9 &= \{1, 2, 3, 4, 5, 6\} \\
 E_9 &= \{(1, 2), (1, 5), (2, 1), (2, 4), \\
 &\quad (5, 4), (5, 6), (6, 1), (6, 3)\}
 \end{aligned}$$

Graph  $G_9$

### Formal Description of Graph $G_9$

Is an indegree

2	of	1
1	of	2
1	of	3
2	of	4
1	of	5
1	of	6

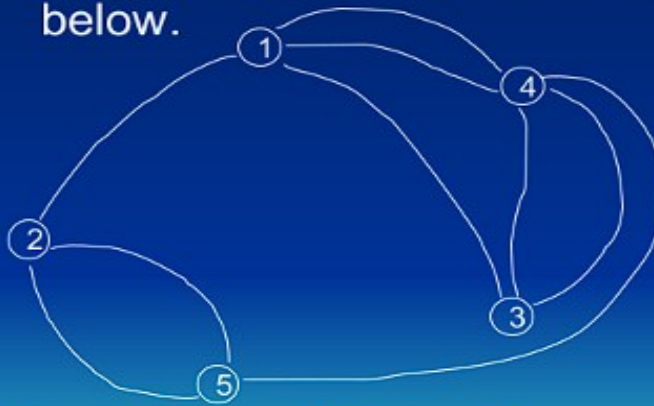
Is an outdegree

2	of	1
2	of	2
0	of	3
0	of	4
2	of	5
2	of	6

# Graphs (cont'd.)

## Exercise

Give the formal description of the directed graph below.



$$G_{10} = (V_{10}, E_{10})$$

$$V_{10} = \{1, 2, 3, 4, 5\}$$

$$E_{10} = \{(1, 4), (2, 1), (2, 5), (3, 1), (3, 4), (4, 1), (4, 3), (4, 5), (5, 2)\}$$

Graph  $G_{10}$

## Formal Description of Graph $G_{10}$

Is an indegree

3	of	1
1	of	2
3	of	1
2	of	4
2	of	5

Is an outdegree

1	of	1
2	of	2
2	of	3
3	of	4
1	of	5