

**Actividad 1.1: Practicando las matemáticas básicas**

## Implementación de métodos computacionales

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1. In the tree of Fig. 1.4,
   1. Which vertices are leafs and which are interior vertices?

|  |  |
| --- | --- |
| Leaves | Interior vertices |
| 2 | 1 |
| 4 | 3 |
| 6 | 5 |
| 9 | 7 |
| 8 |  |

* 1. Which vertices are the sons of 5?

7,8

* 1. Which vertex is the father of 5?

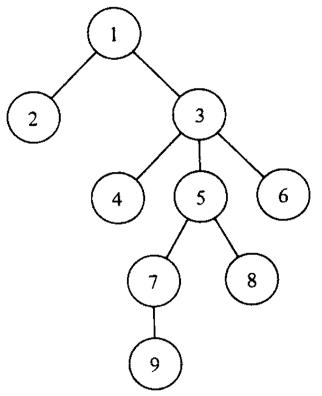
3

* 1. What is the length of the path from 1 to 9?

5

* 1. Which vertex is the root?

1



**Fig1.4 A tree.**

1. Prove by induction on that: