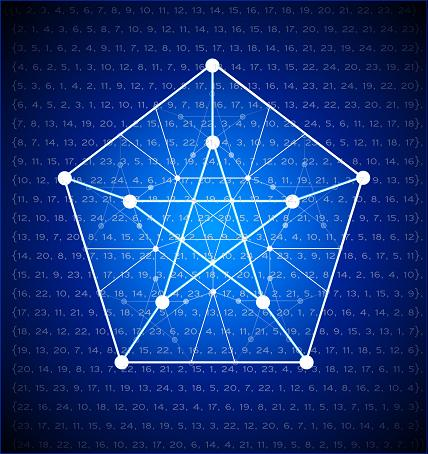
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**Tecnológico de Monterrey**

**TC2037: Implementación de métodos computacionales**

Actividad 1.1: Practicando las matemáticas básicas

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**Herramientas básicas**

Herramientas básicas Fuente: J.E. Hopcroft, J.D. Ullman. Introduction to Automata Theory, Languages, and Computation. Addison‐Wesley, (1979), pp. 10‐11.

**1.1 In the tree of Fig 1.4,**

1. **Which vertices are leaves and which are interior vertices?**

Hojas: 2,4,9,8,6

Vértices interiores: 1, 3, 5, 7

1. **Which vertices are the sons of 5?**

Hijos: 7,8

1. **Which vertex is the father of 5?**

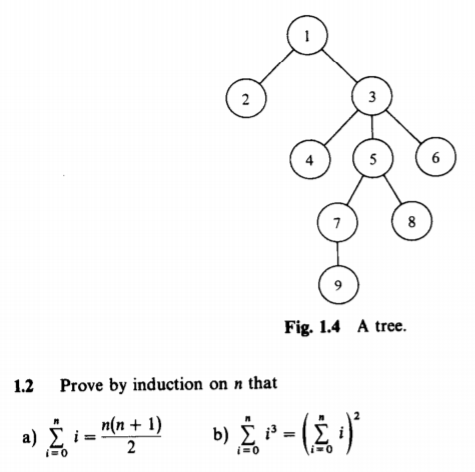
Padre: 3

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

Longitud: 5

1. **Which vertex is the root?**

Raíz: 1



**1.2 Prove by induction on n that**

