i. $a_1^2 + b_1^2 = c_1^2$

ii. $\sum_{i=0}^{n} \sqrt[3]{\frac{a_i + b_i}{c_i}}$

Given a quadratic equation, $ax^2 + bx + c = 0$, then if $\sqrt{b^2 - 4ac} \geq 0$, roots of the equation are real. Else, the roots are complex.

The De Morgans laws in Set Theory are given in Eq. XXX as follows.

1. $\overline{A \cup B} = \bar{A} \cap \bar{B}$

2. $\overline{A \cap B} = \bar{A} \cup \bar{B}$

Where A and B are Sets, $\bar{A}$ and $\bar{B}$ are the complements of sets A and B, $\cup$ is the Union and $\cap$ is the Intersection operations