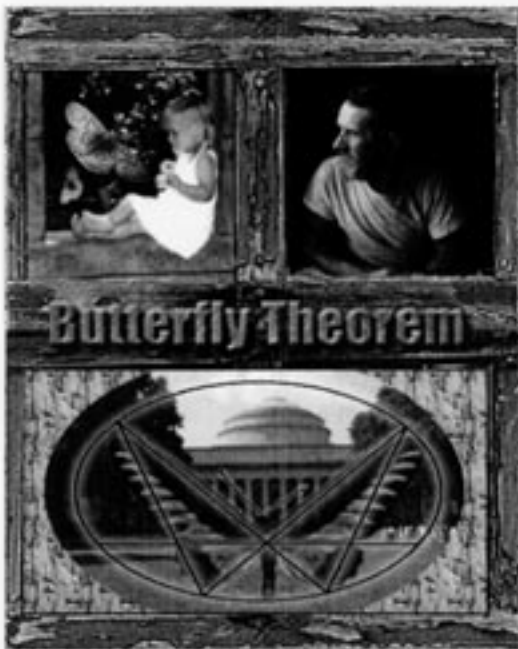Igor Ganichev
SPS.757
12/02/02
Final Project.

Butterfly Theorem.

The idea of the project is to present a beautiful theorem very well known in elementary geometry. This theorem has an appropriate for it name -- "Butterfly theorem". It was proved by Archimedes who came up with the idea when he saw a butterfly in the garden.

The picture of a girl in the upper left window holding a flower and looking at the butterfly in front of her conveys the beauty, innocence and mystery of nature. This picture was made from a picture of a girl and a picture of butterfly using 'free transform' command of Adobe Photoshop 7.0.

The picture of thinking and contemplating man represents human's inquisitive mind, mind that perceives the beauty of nature surrounding him. The background color was chosen to be black to immediately grab the viewer's attention and direct it to the man. This image was cut from a photograph of a man looking into a window.

The picture at the bottom is meant to show the result of human's understanding of the nature. The geometrical shape is an illustration of the Butterfly Theorem. More specifically, the theorem states that the two segments highlighted in red are always equal to one another. The image of a butterfly lies below this shape to show the similarity. The background is simply a very familiar place -- Killian court.

Note for those interested in geometry:

Butterfly Theorem: Let two arbitrary chords pass through the midpoint M of a given chord of a conical session and intersect it in points A1, B1 and A2, B2 respectively. Then MP=MQ, where P and Q are the points of intersection of segments A1A2 and B1B2 with the given chord respectively.