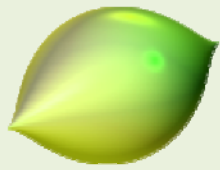


Name:

Day:



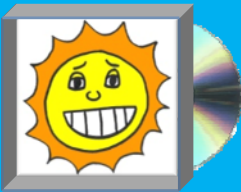
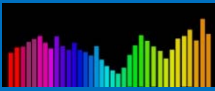

ImaginaryBCN



Monitoring notebook

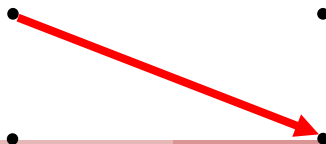
Activity: Initiation to the coordinates

◆ Imaginations more and more imaginative

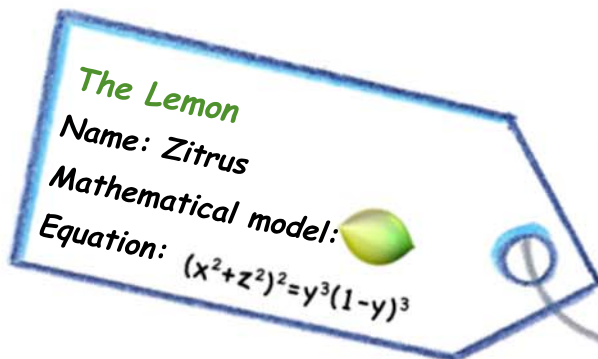
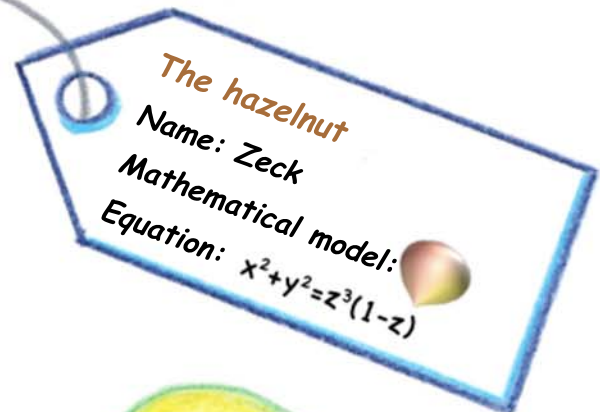
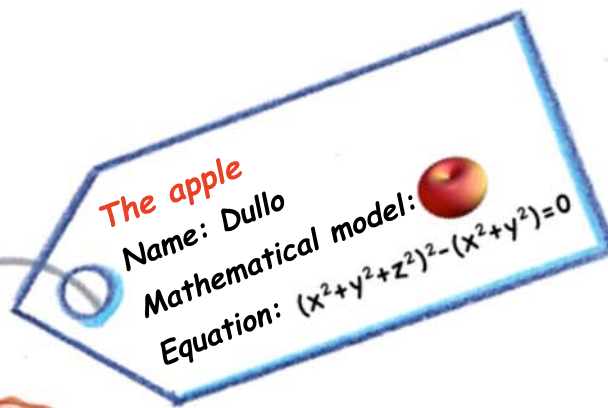
REALITY	IMAGINATION 1	IMAGINATION 2	IMAGINATION 3
WATCH THE LEMON			$x^2 + z^2 = y^3 (1 - y)^3$

REALITY	IMAGINATION 1	IMAGINATION 2	IMAGINATION 3
SING "SOL SOLET"			

REALITY	IMAGINATION 1	IMAGINATION 2	IMAGINATION 3
	SPIN THE SPINNINGTOP	$x^2 + y^2 = z^3 (1 - z)$	



The cast of the story



"Desserts of all colors and forms"



There was once a peasant who had lemon trees, apple trees and hazelnut trees in her farmhouse. Every Monday she went to the village market to sell their $(x^2+y^2+z^2)^2 - (x^2+y^2) = 0$, $(x^2+z^2)^2 = y^3(1-y)^3$ and $x^2+y^2 = z^3(1-z)$.

One day, an , a and a decided to run away from the stall to see the world and become a special dessert..

The jumped into the basket of the baker of the town and became a great ? pie.

The jumped into the small cart of the chef of the restaurant of the town and became a delicious ? mousse. And the was also very lucky

because it was secretly put into the bag of the ice-creams vendor of the town and became a refreshing ? sorbet.

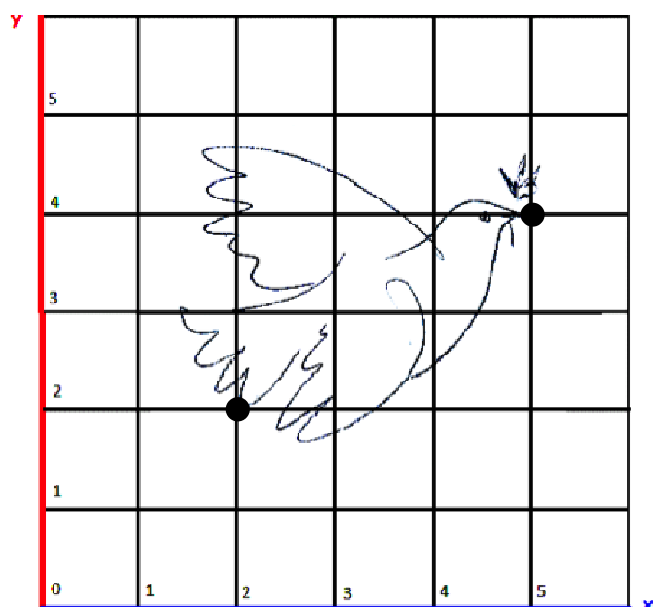


◆ The coordinates of a bird

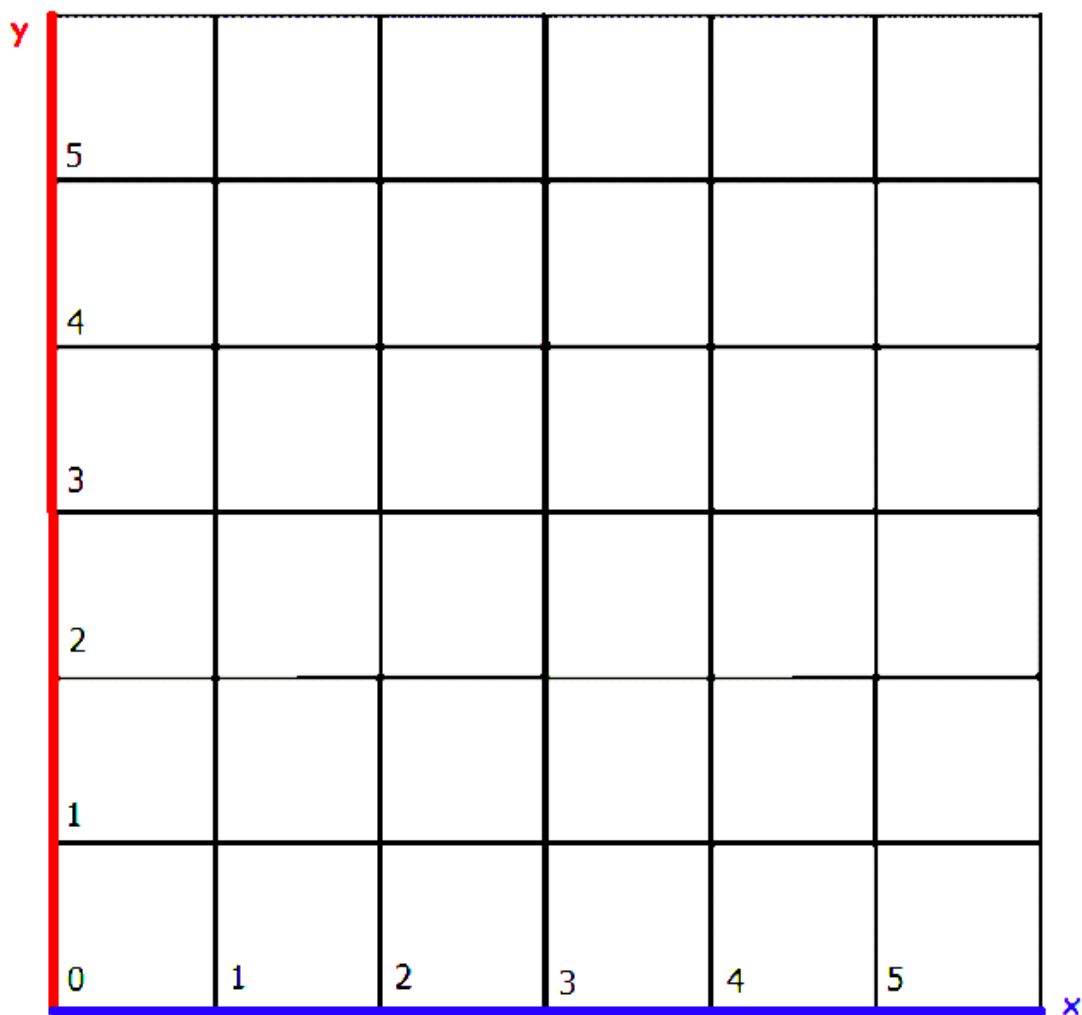
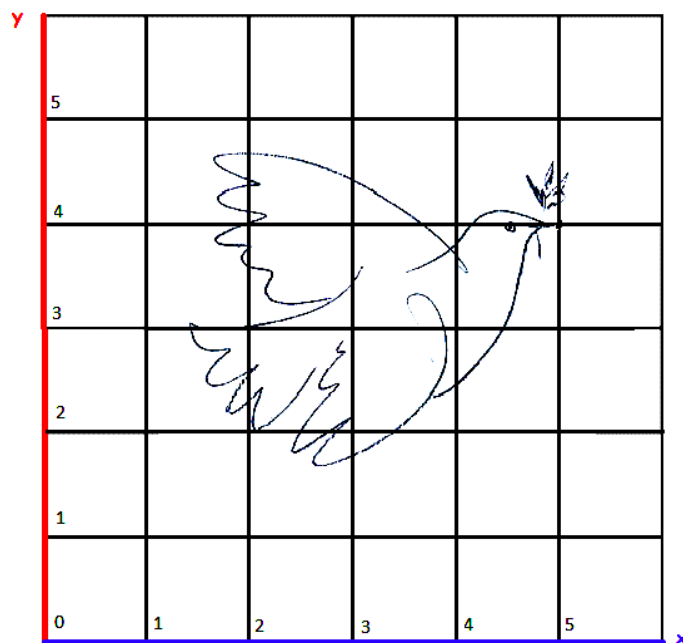
You have seen that SURFER software draws surfaces using equations. But this is not possible without a system of coordinates, this is a grid which let us locate exactly each point of the space.

Pay attention to the grid below and the bird drawn on it. Each point of the grid corresponds to a **blue number** and a **red number**: these are their coordinates. For example, the feather of the pigeon has coordinates (2,2). The first number, the **blue** one, is named **x coordinate**. The second number, the **red** one, is named **y coordinate**.

Which are the coordinates of the pigeon's beak? (____,____)



Look at the big grid that you can find at the end. With the help of the coordinates you can easily extend the drawing. Try it!



Remember:

Create your own surface and participate to the contest!

www.imaginary-exhibition.com/concurso

You can download (for free!) SURFER from the website:

www.imaginary-exhibition.com/surfer?lang=es

Material created by Maria Alberich, Jordi Buendía, Ferran Dachs, Anna Sabater and Emilio José Sánchez supported by: