

TOPIC: PLANE CURVES



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In mathematics, the notion of curve refers to a wide category of continuous one dimensional objects. By definition, a curve is a function by which an interval of real numbers is transformed into a lot of points in a topological space.



The mathematical concept of the curve has found many applications in a multitude of fields. Here are just a few examples:

o in geography, geodesy, cartography: level curves;
o in mathematical analysis: graphs of functions;
o in three-dimensional geometry: sections between surfaces;
o in physics: trajectories;
o in digital graphics: Bézier curves, spline curves;
o in economics: demand curve, cost curve;
o in psychology: the learning curve, the forgetting curve;





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1885-1886

"In order to develop a complete mind, you have to study the science of art and the art of science. You have to learn how to see, because everything is connected to each other, "said Leonardo da Vinci. Many artists, especially those of the 20th century, used curved lines to create ambiguous and abstract shapes.

What are the different types of lines used in art?

The five types of baselines used in art and design are horizontal, vertical, diagonal, zigzag, and curved lines. The lines, which are one of the fundamental elements of art and design have different qualities depending on their appearance. The artists, Liana and Pavel Bența





Common View



Lines are often used to split an image or to illustrate the physical boundaries of an object.

For example, horizontal lines are used to represent the curve of the horizon in landscape portraits, while curved lines are used to draw organic objects such as fruits or flowers. **The lines also convey different emotions**. For example, horizontal lines convey peace and stability, while zigzag or diagonal lines evoke intensity and enthusiasm. Curved lines and shapes give rhythm and movement, happiness, pleasure and generosity. They are seen as more feminine than sharp shapes, which denote energy, violence and anger

artists, researcher, teachers involved in the project



