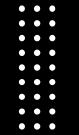


Omotetie.Transformarea de asemanare



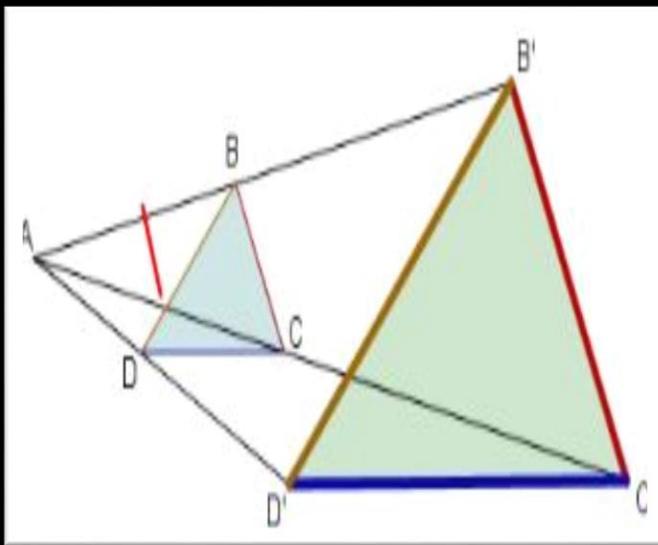
Motto

- Doua figuri se numesc figuri omotetice daca exista o omotetie a spatiului care aplica una din aceste figure pe cealalta.
- Omotetia este un caz particular al asemanarii.



Definitie

Fie k un numar real pozitiv. Se numeste transformare de asemanare de coeficient k a spatiului aplicatia spatiului in el insusi care pentru orice doua puncte A, B si imaginile lor respective A', B' satisfice conditia $A'B' = kAB$

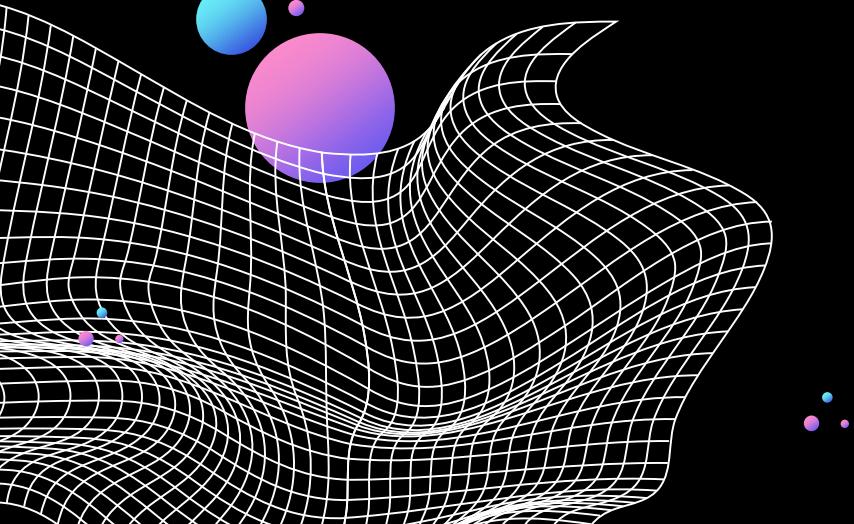
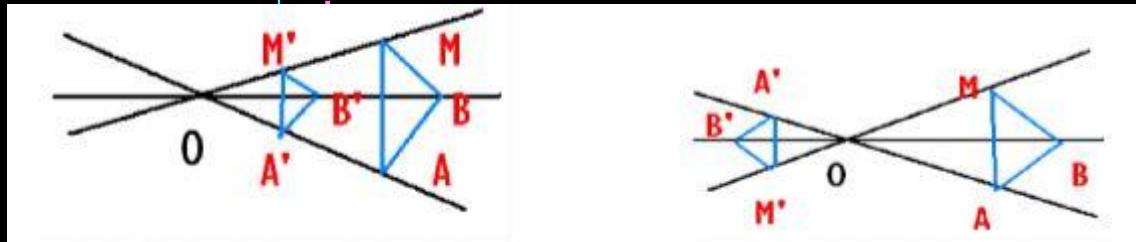
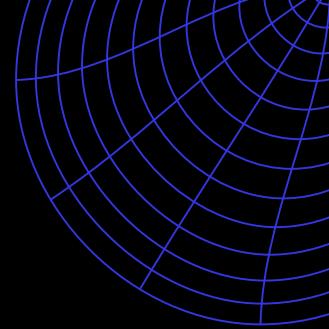


Teorema

1. Compunerea a doua asemanari de coeficienti k_1 si k_2 este o asemanare de coefficient $k_1 k_2$.
2. Transformarea inversa asemanarii de coefficient k este o asemanare de coefficient $1/k$



Omotetie de Centru





- Sostituendo nell'equazione

$x^2 + y^2 = 9$, si ottiene:

$$\frac{x^2}{16} + \frac{y^2}{16} = 9 \quad \text{cioè:}$$

$$x^2 + y^2 = 144$$

