

# Visualization of Theorems of Geometry

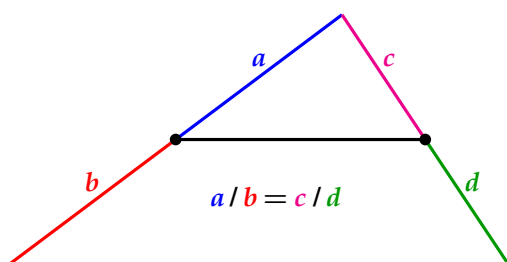
Moti Ben-Ari

<http://www.weizmann.ac.il/sci-tea/benari/>

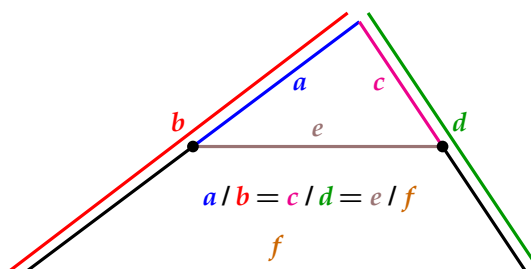
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This document contains a list of advanced theorems of plane geometry that are presented visually.

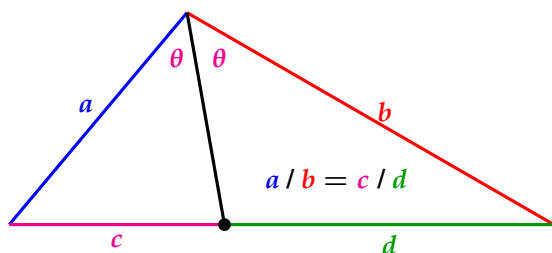
## Triangles



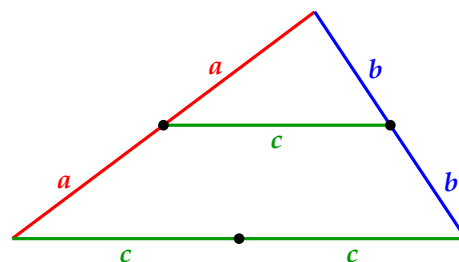
Thales theorem.



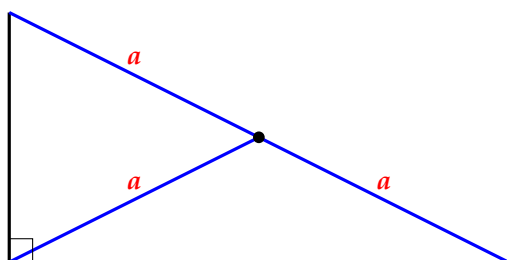
Thales theorem.



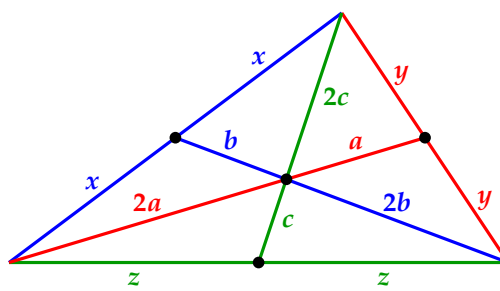
Angle bisector splits the opposite side.



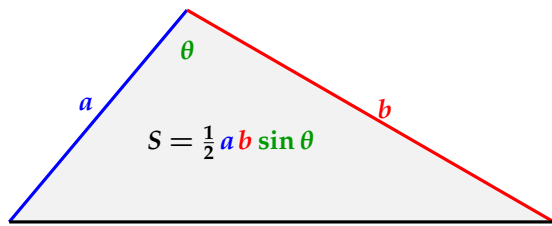
Bisector of sides adjacent to an angle.



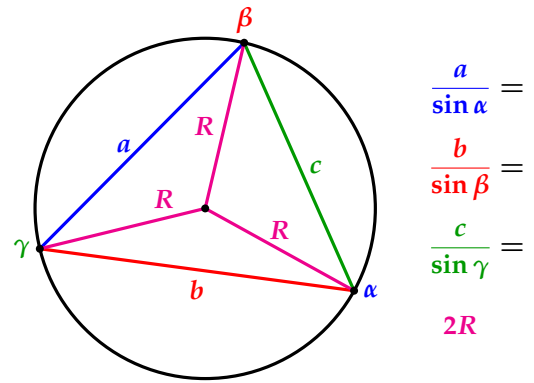
Bisector of the hypotenuse.



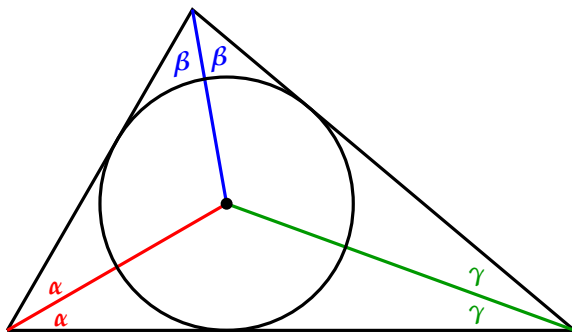
Intersection of the medians.



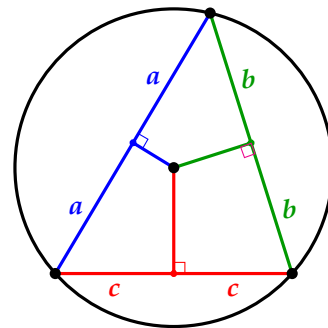
Area of a triangle.



Law of sines.

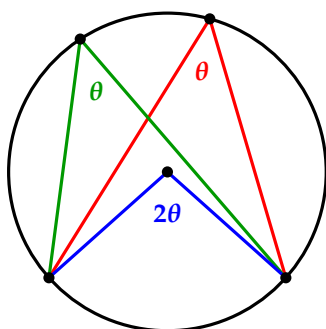


Intersection of the angle bisectors.

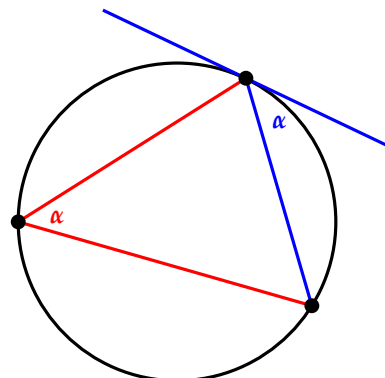


Intersection of the perpendicular bisectors.

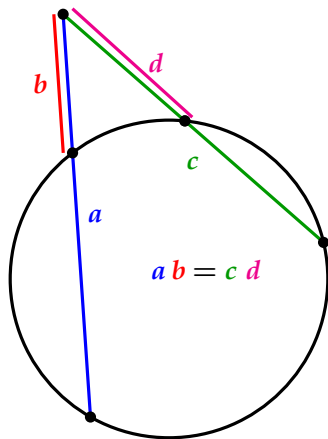
## Circles



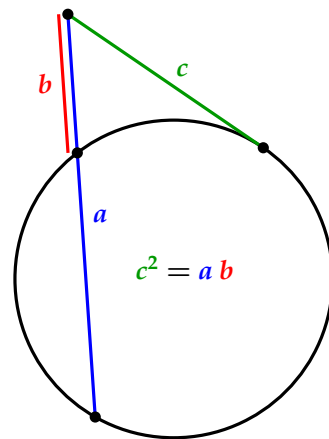
Central angle and inscribed angle.



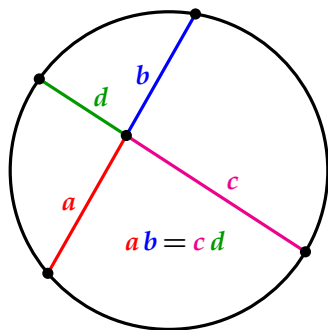
The angle subtending a chord and the angle between the chord and the tangent.



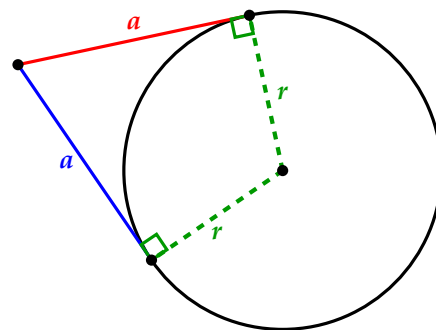
Intersecting secants.



Intersecting secant and tangent.

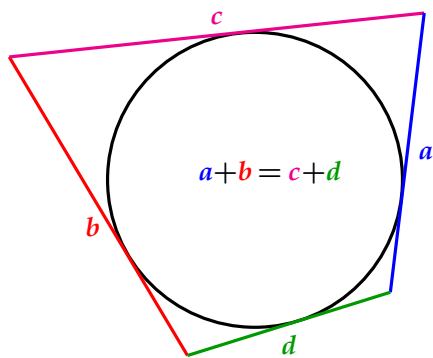


Intersecting chords

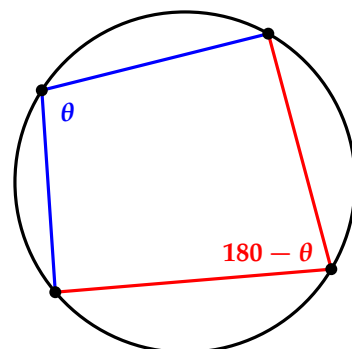


Intersecting tangents.

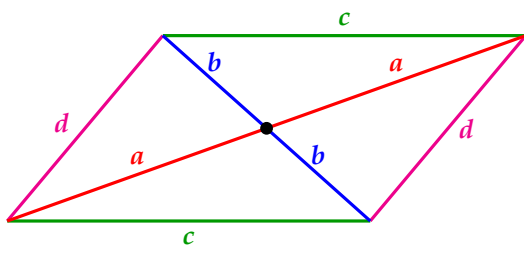
## Quadrilaterals



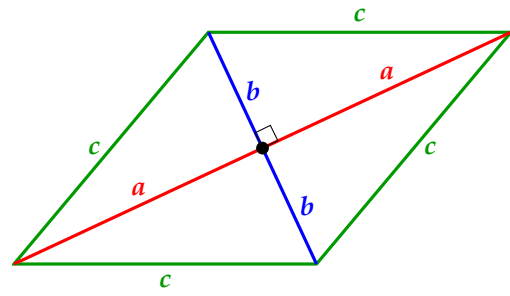
Opposite sides of a circumscribed quadrilateral.



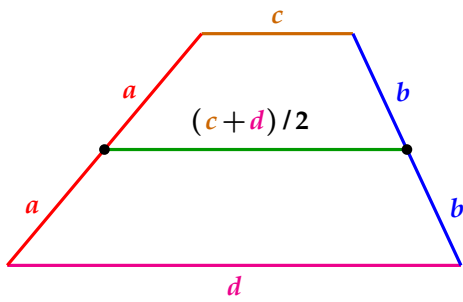
Opposite angles of an inscribed quadrilateral.



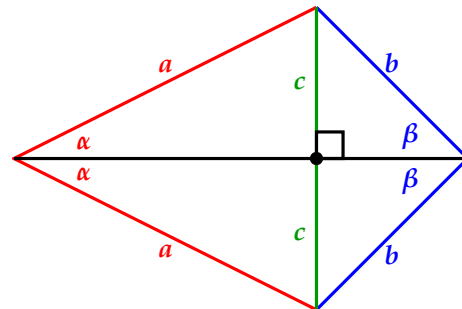
Diagonals of a parallelogram.



Diagonals of a rhombus.



Median of a trapezoid.



Diagonals of a kite.