

Visualization of Theorems of Geometry

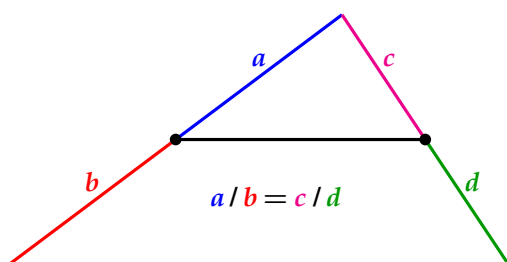
Moti Ben-Ari

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

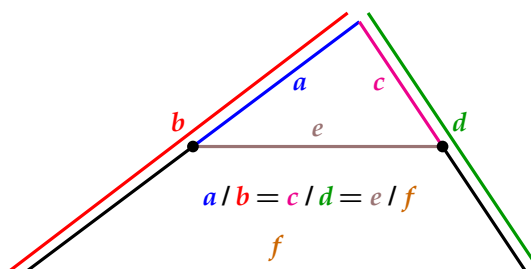
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This document contains a list of advanced theorems of plane geometry that are presented visually.

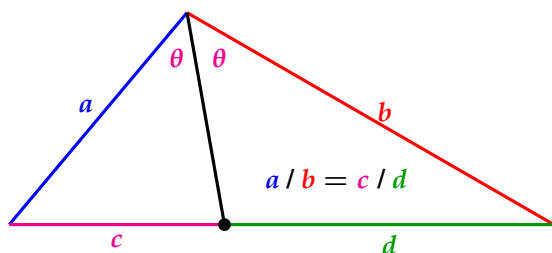
Triangles



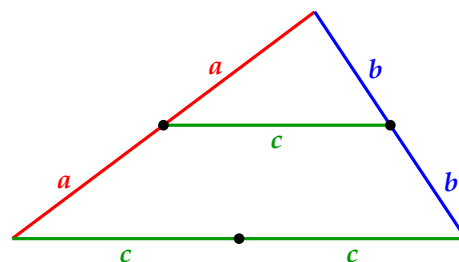
Thales theorem.



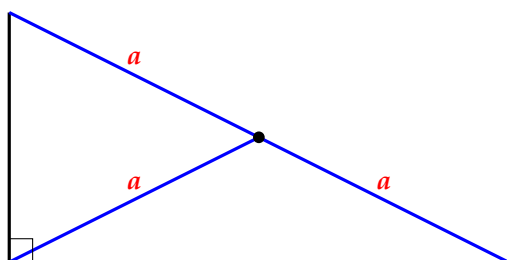
Thales theorem.



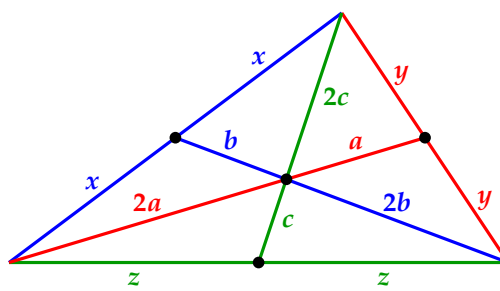
Angle bisector splits the opposite side.



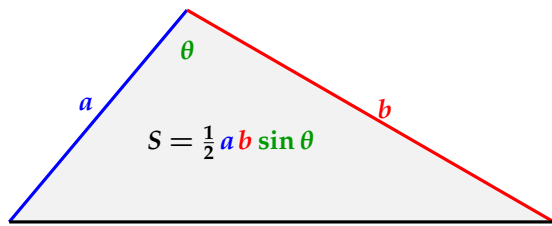
Bisector of sides adjacent to an angle.



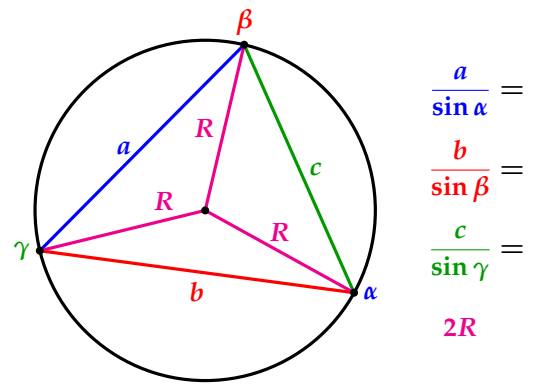
Bisector of the hypotenuse.



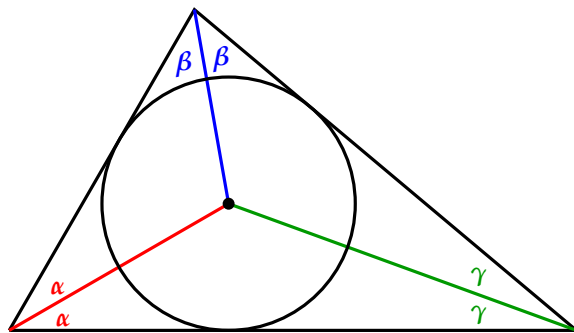
Intersection of the medians.



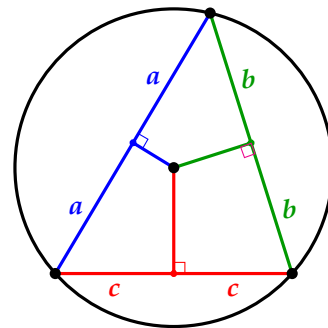
Area of a triangle.



Law of sines.

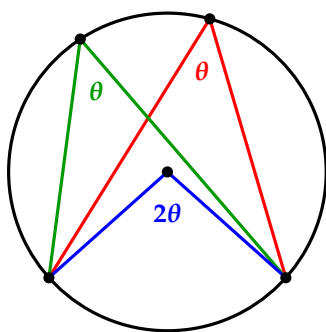


Intersection of the angle bisectors.

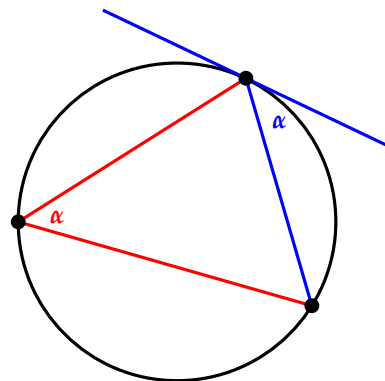


Intersection of the perpendicular bisectors.

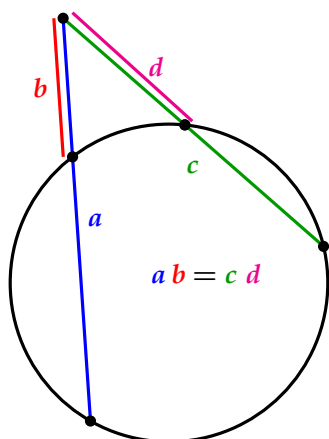
Circles



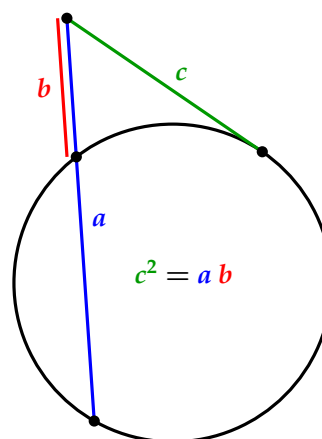
Central angle and inscribed angle.



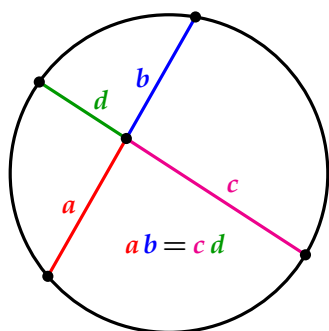
The angle subtending a chord and the angle between the chord and the tangent.



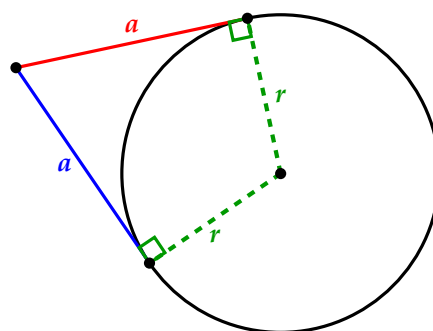
Intersecting secants.



Intersecting secant and tangent.

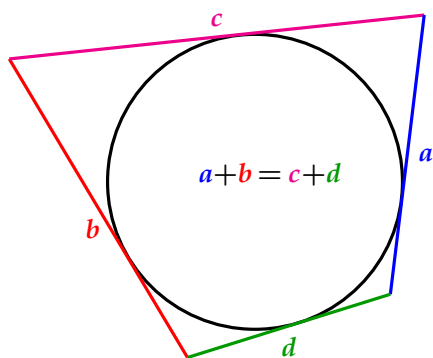


Intersecting chords

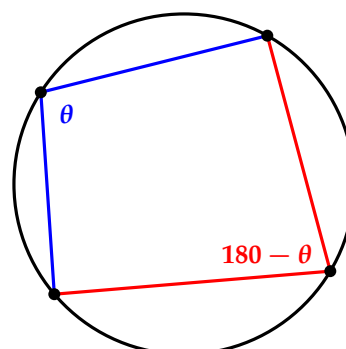


Intersecting tangents.

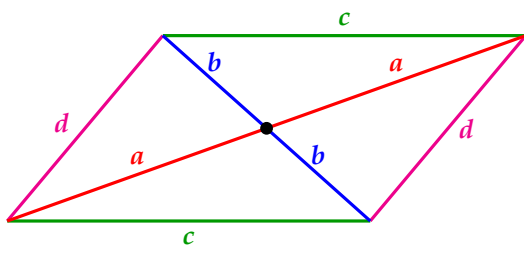
Quadrilaterals



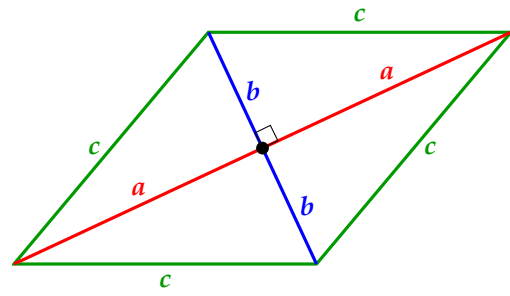
Opposite sides of a circumscribed quadrilateral.



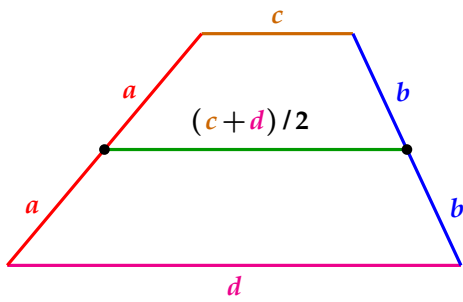
Opposite angles of an inscribed quadrilateral.



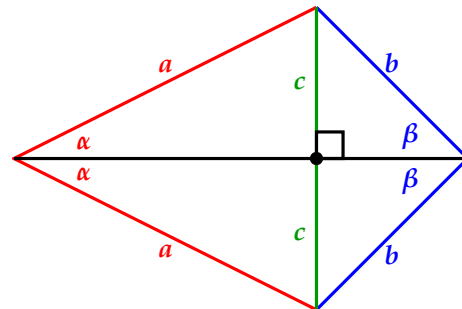
Diagonals of a parallelogram.



Diagonals of a rhombus.



Median of a trapezoid.



Diagonals of a kite.