

Answer on Question#43055-Math-Geometry

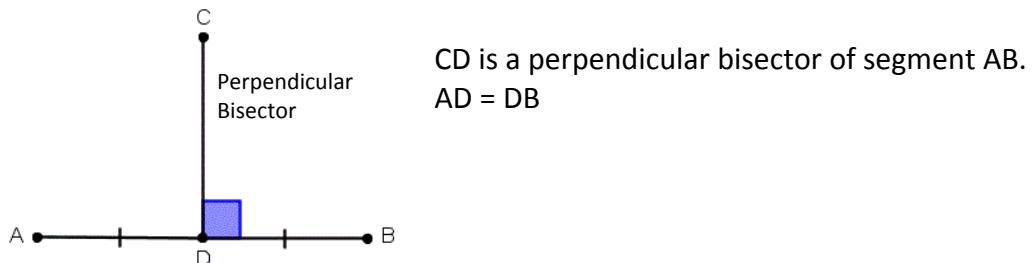
Question

Examples of topic perpendicular and angle bisectors plus explanation

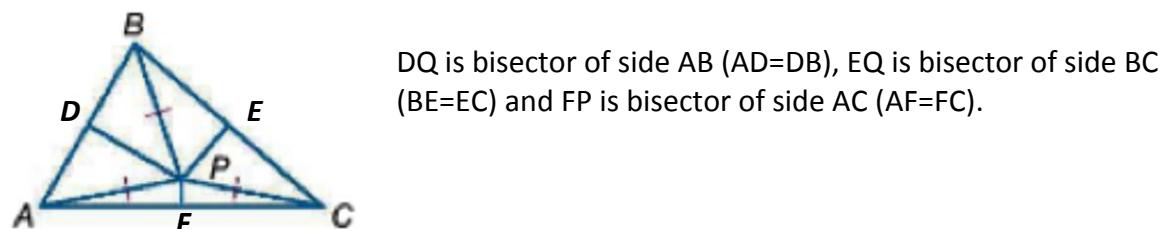
Answer

In geometry, bisection is the division of something into two equal or congruent parts, usually by a line, which is then called a bisector. The most often considered types of bisectors are the **perpendicular bisector** and the **angle bisector**.

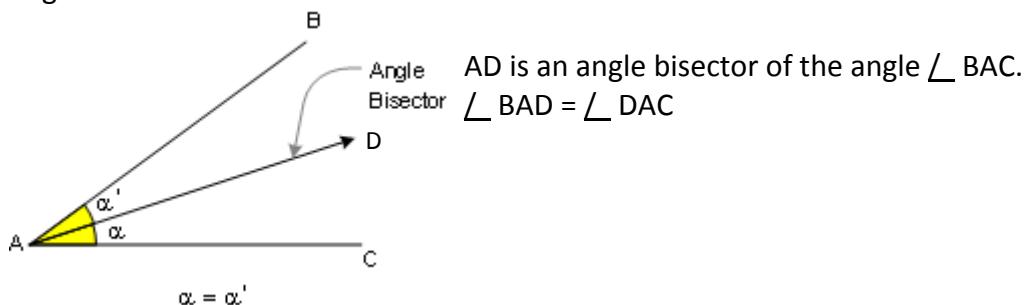
The **perpendicular bisector** is a line that passes through the midpoint of a given segment:



In the triangle ABC in figure below DP, EP and FP are examples of perpendicular bisectors of the triangle sides.



The **angle bisector** is a line that passes through the apex of an angle that divides it into two equal angles:



In the triangle ABC in figure below AQ, BQ and CQ are examples of angle bisectors of a triangle.

