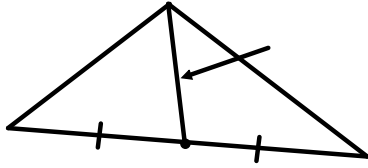


2.2 Equations of Medians, Altitudes and Right Bisectors

A. MEDIANS



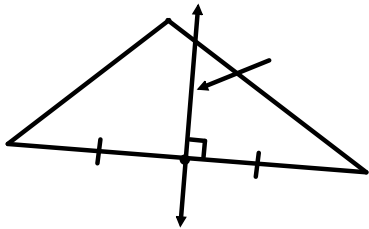
A median is a _____ that joins the _____ of a triangle to the _____ of the opposite side.

Since every triangle has _____ vertices, every triangle has _____ medians.

Ex. 1:

Determine the equation of the median from J for the triangle with vertices $J(2,5)$, $K(4,-1)$ and $L(-2,-5)$.

B. PERPENDICULAR (OR RIGHT) BISECTORS

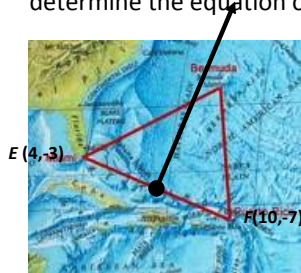


A perpendicular bisector is a _____ that passes through the _____ of a line segment at _____.

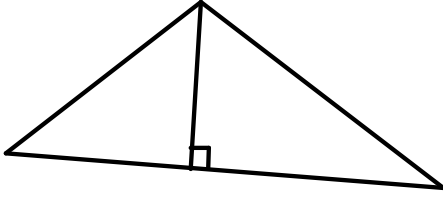
Since every triangle has _____ sides, every triangle can have _____ right bisectors.

Note: A perpendicular bisector does not have to _____!

Ex. 2 Below is a famous area called The Bermuda Triangle. A ship plans to take the path formed by the perpendicular bisector of line segment EF . The pilot wishes to be tracked the whole way. Can you determine the equation of his ship?



C. ALTITUDES



An altitude is a _____ that joins the _____ of a triangle to its opposite side at _____.

Since every triangle has _____ vertices, every triangle has _____ altitudes.

Note: An altitude does not have to pass _____!

Ex. 3 Determine the equation of the altitude from A.

