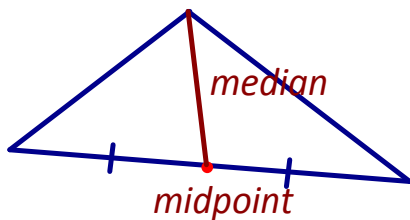


2.2 Equations of Medians, Altitudes and Right Bisectors

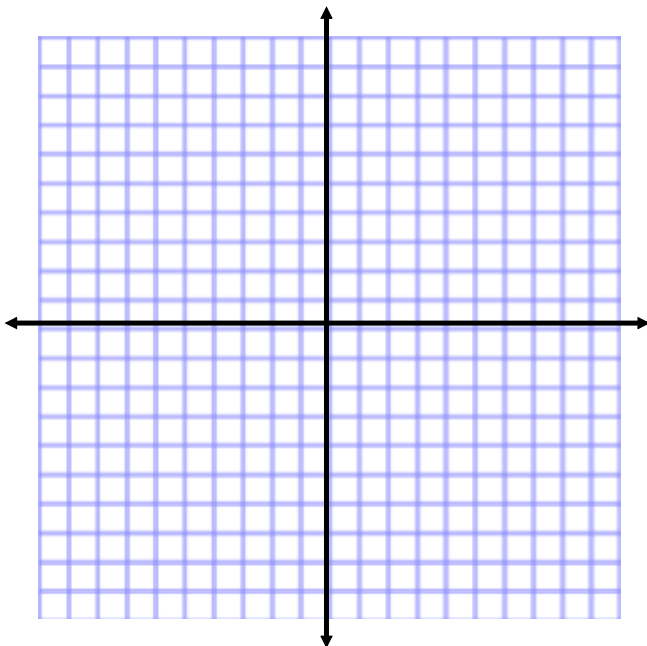
A. MEDIANS



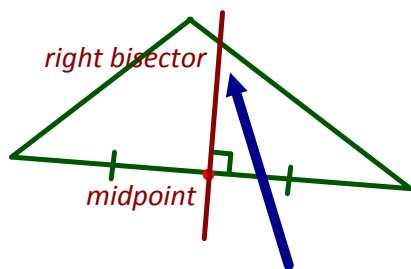
a median joins the vertex of a triangle to the midpoint of the opposite side



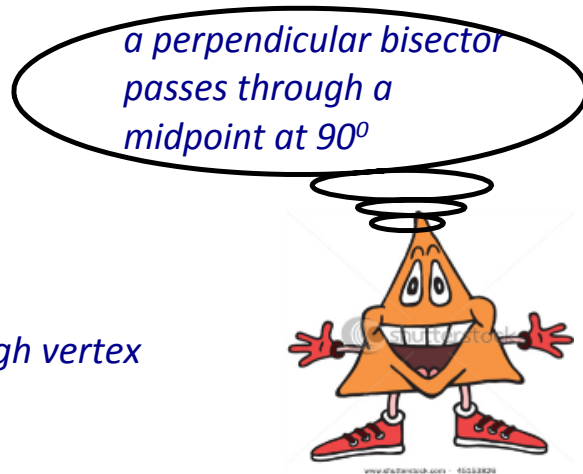
Ex. 1: Determine the equation of the median from J for the triangle with vertices $J(2,5)$, $K(4,-1)$ and $L(-2,-5)$.



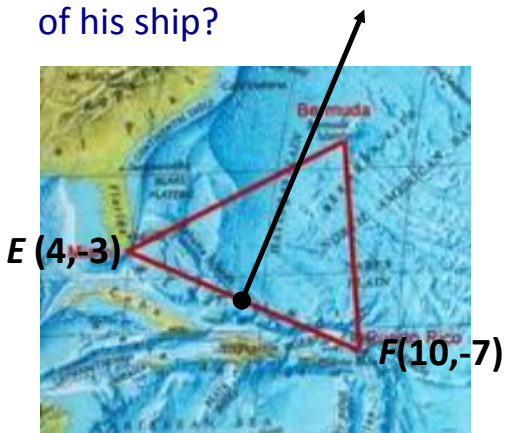
B. PERPENDICULAR (OR RIGHT) BISECTORS



look: does not have to go through vertex

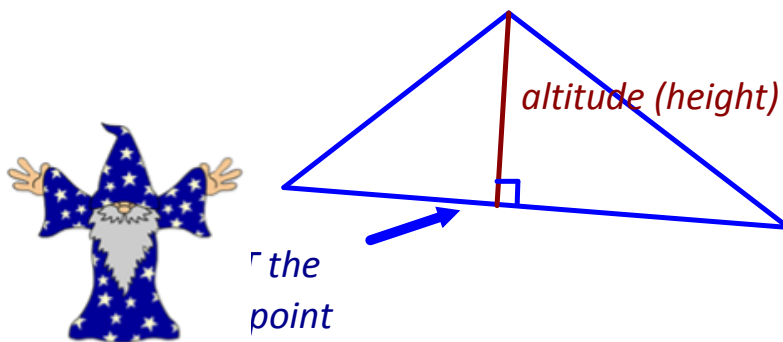


Ex. 2 Below is one of the most famous triangles... THE BERMUDA TRIANGLE! A ship plans to take the path of the perpendicular bisector from the segment EF . He wishes to be tracked the whole way. Can you determine the equation of his ship?

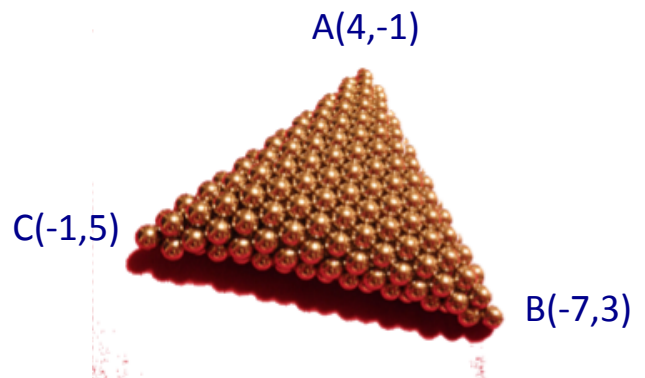


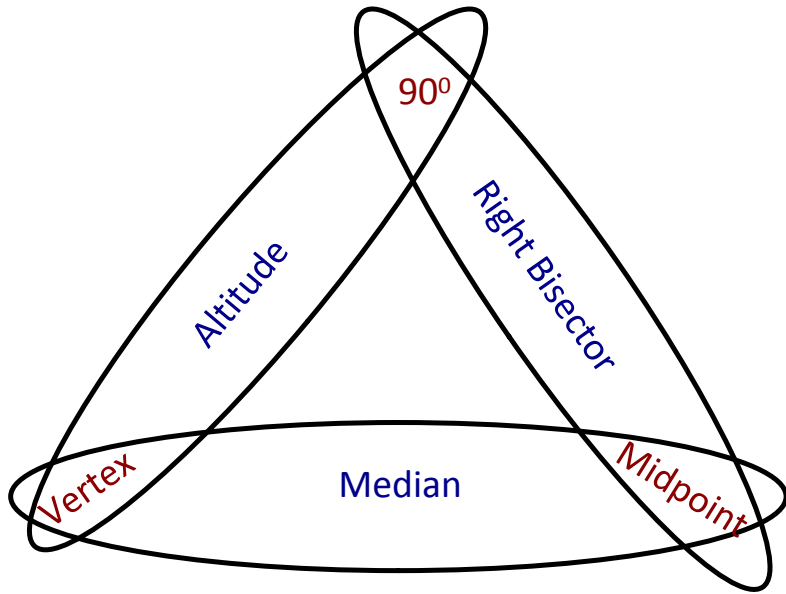
C. ALTITUDES

An altitude joins the vertex of a triangle to its opposite side at 90°



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





Basic: Pg. 66 #4 & Pg. 100 #4

Regular: Pg. 65 #C3,8,17 & Pg. 90 #18

Challenge: Pg. 68 #23,29

GLENZ



