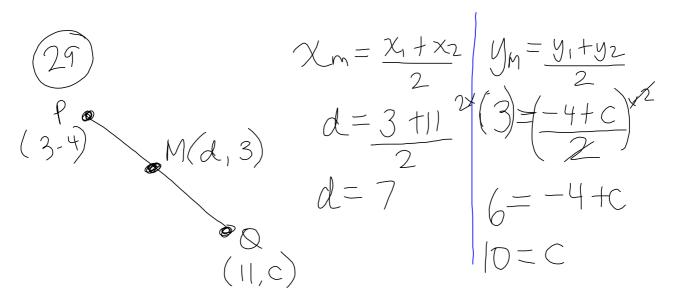
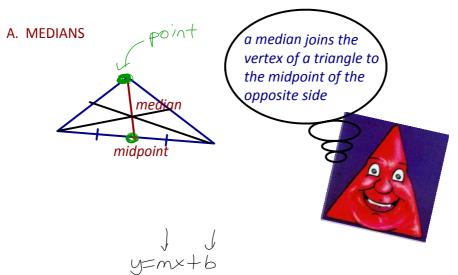
# Homework Qs??

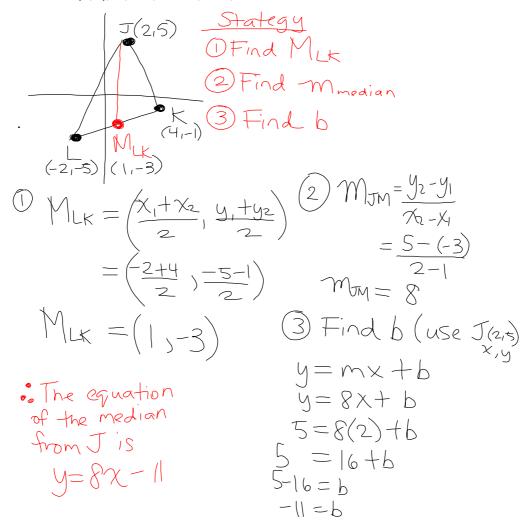


### 2.2 Equations of Medians, Altitudes and Right Bisectors

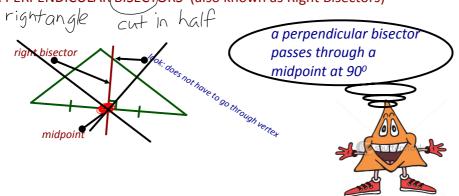
\* To make an equation, you always need  $\longrightarrow$  Slope (2 points) y=mx+b  $\longrightarrow$  point (x,y)



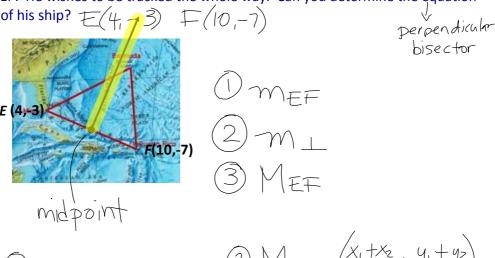
<u>Ex. 1</u>: Determine the <u>equation</u> of the median from J for the triangle with vertices J(2,5), K(4,-1) and L(-2,-5).



## B. PERPENDICULAR/BISECTIORS (also known as Right Bisectors)



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



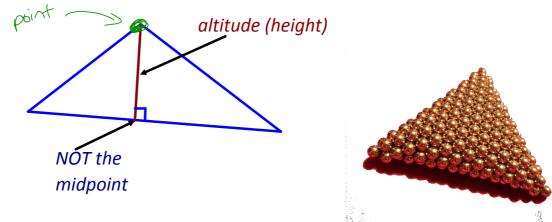
$$-5 = \frac{21}{2} + b$$
•• Equation
of the ship is
$$y = \frac{3}{2}x - \frac{31}{2}$$

$$-\frac{10}{2} - \frac{21}{2} = b$$

$$-\frac{31}{2} = b$$

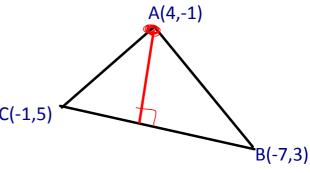
### C. **ALTITUDES**

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



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

) find b (using mi and A) C(-1,5)



$$2m_{\perp}=-3$$

$$\begin{array}{ll}
\boxed{1.5cm}
\boxed{1$$

