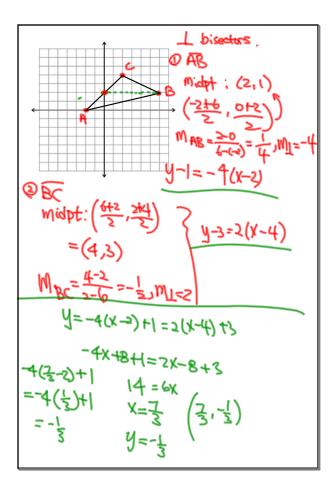
Homework Geometry RSH RHS

Let $\triangle ABC$ has its coordinates at A(-2,0), B(6,2), and C(2,4).

- 1. Sketch the triangle.
- 2. Find equations of perpendicular bisectors of \overline{AB} , \overline{BC} , and \overline{AC} .
- 3. Then, find the intersection of the perpendicular bisectors.
- 4. Find equations of altitudes from A, B, and C.
- 5. Then, find the intersection of the altitudes.
- 6. Find equations of medians from A, B, and C.
- 7. Then, find the intersection of the medians.

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Altitudes

from A
$$(-7,0)$$
 $M_{BC} = -\frac{1}{2}, M_{L} = 2$

from B $(6,2)$
 $M_{AC} = \frac{4-0}{2-(-2)} / M_{L} = -1$
 $y = 2(x+2) = -(x-6) + 2$
 $y = 2(x+2)$

Median

From A,

$$A(-2,0)$$
 $M:dBC(4,3)$
 $3-\frac{2}{5}=\frac{1}{5}(X-4)$

From B,

 $1=\frac{1}{5}(X-4)$
 $-2=(X-4)$
 $-2=(X-4)$
 $-2=(X-4)$
 $-2=(X-4)$
 $-2=(X-4)$

September 10, 2015

