Triangle Centers

Point of concurrency of the	∆ Center Name	∆ Circle Name	Equidistant from
⊥ bisectors	circumcenter	circumscribed circle	the vertices
∠ bisectors	incenter	inscribed circle	the sides
medians	centroid	•	•
altitudes	orthocenter	•	•

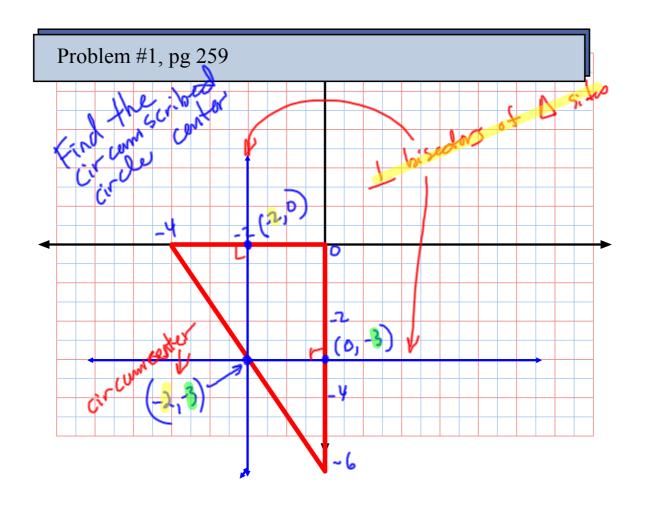
Theorem 5-6

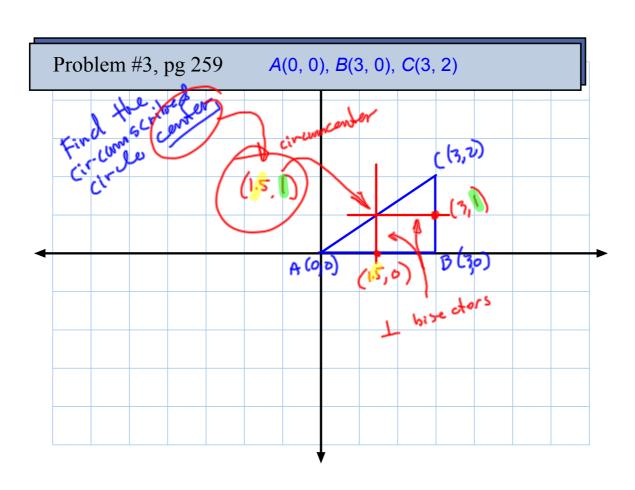
The \bot bisectors of a \triangle are concurrent at a point equidistant from the vertices.

The POC for \triangle \bot bisectors is the circumstant from the vertices.

Circumstant from the vertices.

1





The \angle bisectors of a \triangle are concurrent at a point equidistant from the sides.

Theorem 5-8

The medians of a Δ are concurrent at a point that is $^2/_3$ dist from each vertex

to the midpt of the opp side.

The POC for A medians is the centraid - Mo circle

The medians of a \triangle are concurrent at a point that is $^2/_3$ dist from each vertex to the midpt of the opp side.

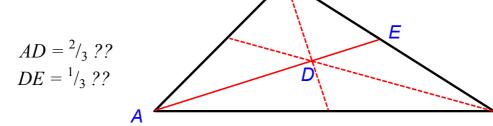
Theorem 5-8

The medians of a \triangle are concurrent at a point that is $^2/_3$ dist from each vertex to the midpt of the opp side.

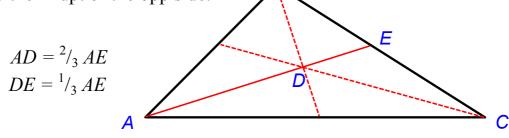
The medians of a \triangle are concurrent at a point that is $^2/_3$ dist from each vertex to the midpt of the opp side.

Theorem 5-8

The medians of a \triangle are concurrent at a point that is $^2/_3$ dist from each vertex between to the midpt of the opp side.

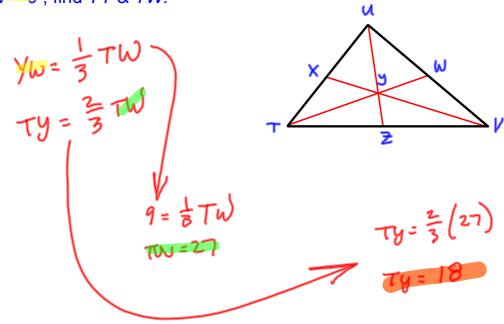


The medians of a \triangle are concurrent at a point that is $^2/_3$ dist from each vertex to the midpt of the opp side.

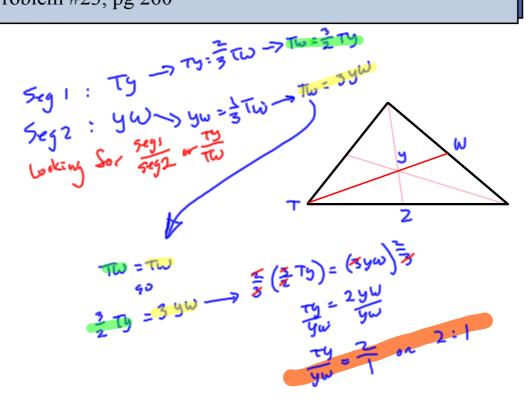


Problem #11, pg 260

If YW = 9, find TY & TW.



Problem #23, pg 260



Theorem 5-9

The lines containing the altitudes of a Δ are concurrent.

The POC For Datts is the orthocenter



L5-3 HW Problems

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Pg 259 #1-15,
19-22,
27-29,
37-39
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