



Lesson 30: Special Lines in Triangles

Student Outcomes

- Students examine the relationships created by special lines in triangles, namely, medians.

Lesson Notes

In Lesson 30, we work with a specific set of lines in triangles: the medians. This is an extension of the work we did in Lesson 29, where we proved that a segment joining the midpoints of two sides of a triangle is parallel to and half the length of the third side, among other proofs.

Classwork

Opening Exercise (5 minutes)

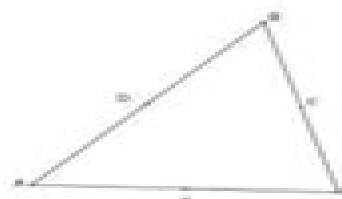
Opening Exercise

In $\triangle ABC$ to the right, D is the midpoint of AB , E is the midpoint of BC , and F is the midpoint of AC . Complete each statement below.

DE is parallel to AC and measures $\frac{1}{2}$ the length of AC .

DF is parallel to BC and measures $\frac{1}{2}$ the length of BC .

EF is parallel to AB and measures $\frac{1}{2}$ the length of AB .



Discussion (5 minutes)

Discussion

In the previous two lessons, we proved that (a) the midsegment of a triangle is parallel to the third side and half the length of the third side and (b) diagonals of a parallelogram bisect each other. We use both of these facts to prove the following assertion:

All medians of a triangle are concurrent. That is, the three medians of a triangle (the segments connecting each vertex to the midpoint of the opposite side) meet at a single point. This point of concurrency is called the centroid, or the center of gravity, of the triangle. The proof also shows a length relationship for each median: The length from the vertex to the centroid is twice the length from the centroid to the midpoint of the side.

Lesson 30 Special Line In Triangles

SA Adler



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