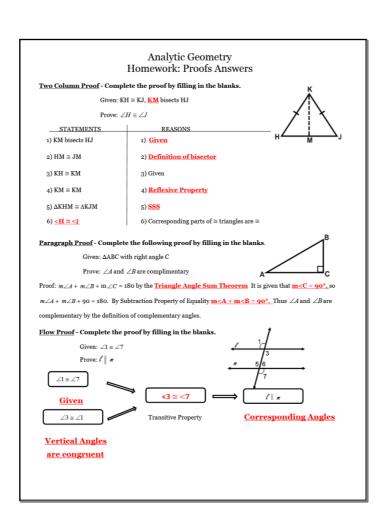
2/11/16 Review for Proofs Quiz

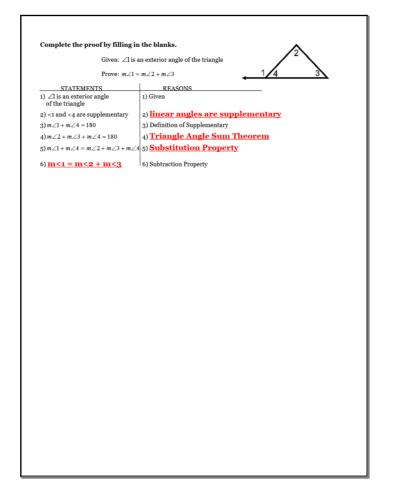
EQ:Name some of the most common properties, theorems, and postulates used when performing proofs.

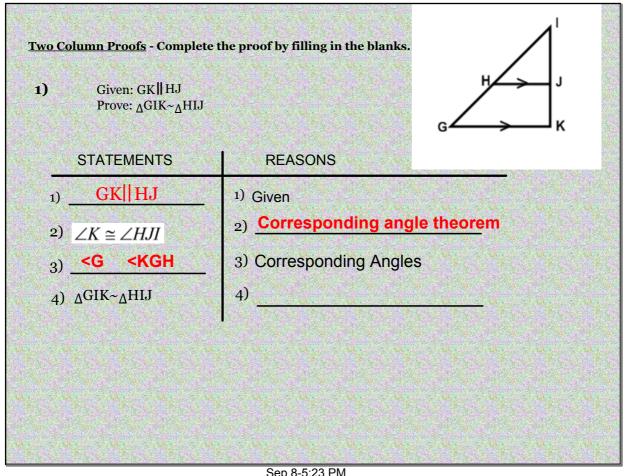
MCC9-12.G.CO.9 Prove theorems about lines and angles. Theorems include: vertical angles are congruent; when a transversal crosses parallel lines, alternate interior angles are congruent and corresponding angles are congruent; points on a perpendicular bisector of a line segment are exactly those equidistant from the segment's endpoints.

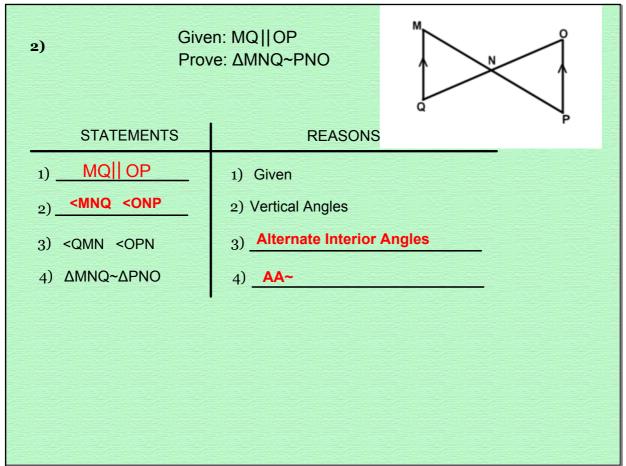
MCC9-12.G.CO.10 Prove theorems about triangles. Theorems include: measures of interior angles of a triangle sum to 1800; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length; the medians of a triangle meet at a point

Sep 8-5:10 PM







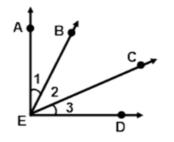


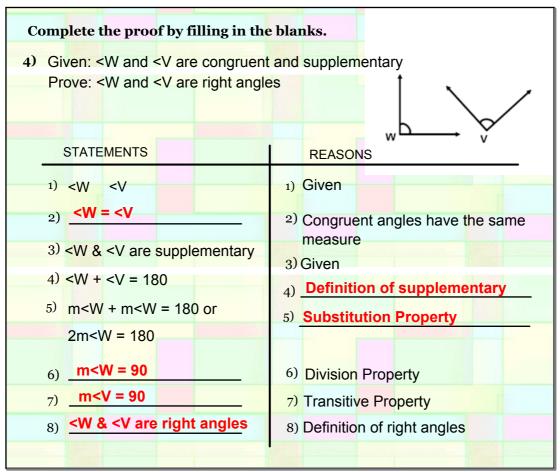
Sep 8-6:11 PM

Paragraph Proof - Complete the following proof by filling in the bla

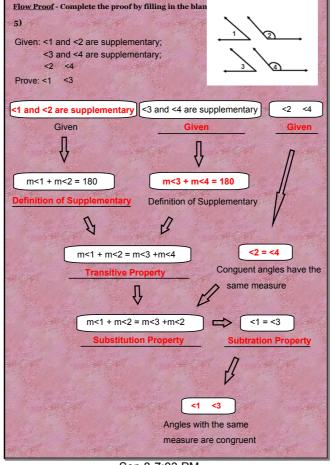
3) Given: m<1 = m<3

Prove: m<AEC = m<DEB





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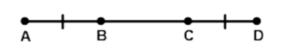
Sep 8-7:03 PM

Complete the proofs by filling in the blanks.

6)

Given: AB CD

Prove: AC BD



STATEMENTS

- 1) $\overline{AB} \cong \overline{CD}$
- 2) **AB = CD**
- 3) BC = BC
- 4) $\overrightarrow{AB} + \overrightarrow{BC} = \overrightarrow{BC} + \overrightarrow{CD}$
- 5) $\overline{AB} + \overline{BC} = \overline{AC}$
- 6) $\overline{BC} + \overline{CD} = \overline{BD}$
- 7) **AC BD**

REASONS

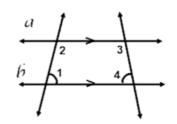
- 1) Given
- 2) Congruent segments have = length
- 3) Reflexive Property
- 4) Addition Property
- 5) Segment Addition Postulate
- 6) Segment Addition Postulate
- 7) Substitution Property

Sep 8-7:44 PM

7)

Given: a||b; <1 <4

Prove: <2 <3

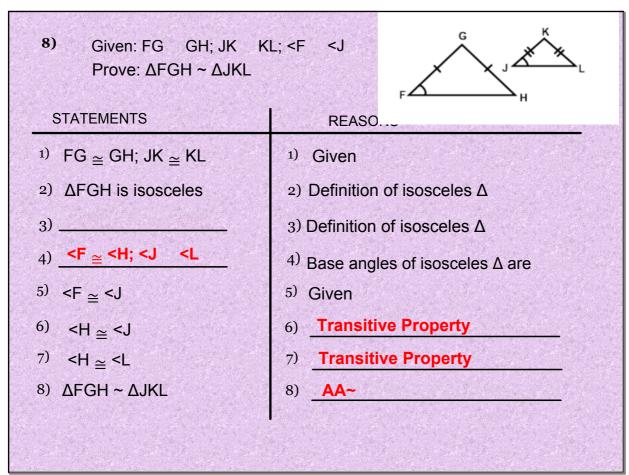


STATEMENTS

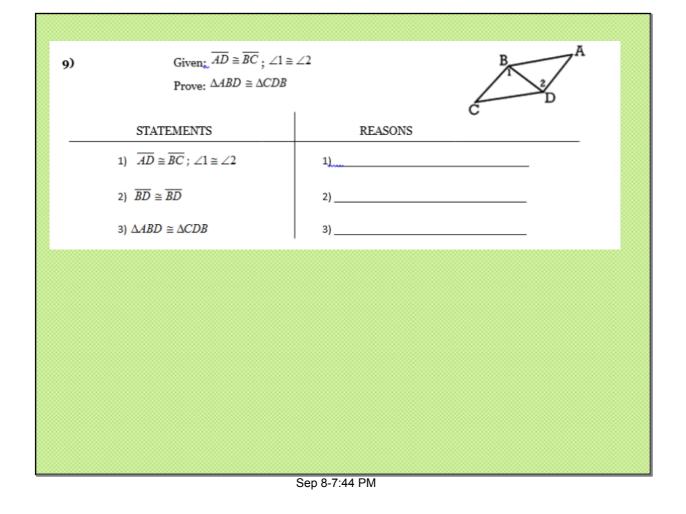
- 1) a||b
- 2) m<1 + m<2 = 180
- 3) m < 3 + m < 4 = 180
- 4) m < 1 + m < 2 = m < 3 + m < 4
- 5) <1 <4
- 6) m<4 + m<2 = m<3 + m<4
- 7) m<2 = m<3
- 8) m<2 m<3

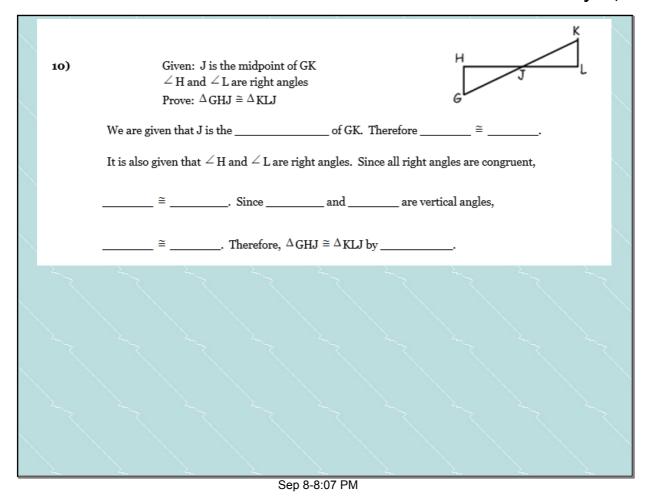
REASONS

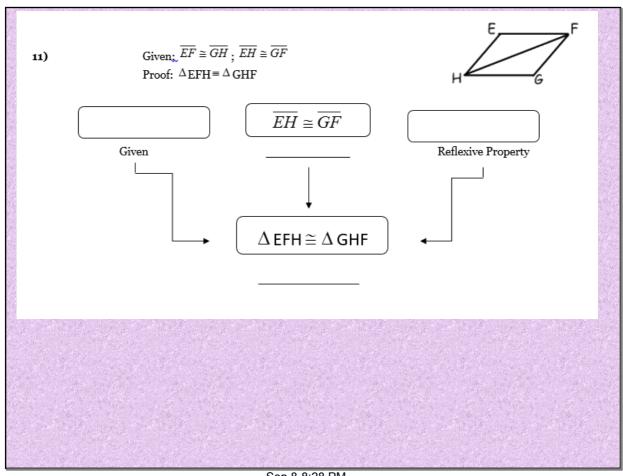
- 1) Given
- 2) Consecutive Interior Angles are supplemental
- 3) Consecutive Interior Angles are supplemental
- 4) Transitive Property
- 5) Given
- 6) Substitution Property
- 7) Subtraction Property
- 8) Congruent Angles have = measure



Sep 8-8:28 PM







Study for Quiz

On-line and textbook help references: p. 44

- http://www.ixl.com/math/geometry/proofs-involving-parallel-lines
- https://www.khanacademy.org/math/geometry/geometry-worked-examples/v/ca-geometry-more-proofs
- http://www.regentsprep.org/Regents/math/geometry/GP11/LsimilarProof.htm

Sep 8-8:47 PM