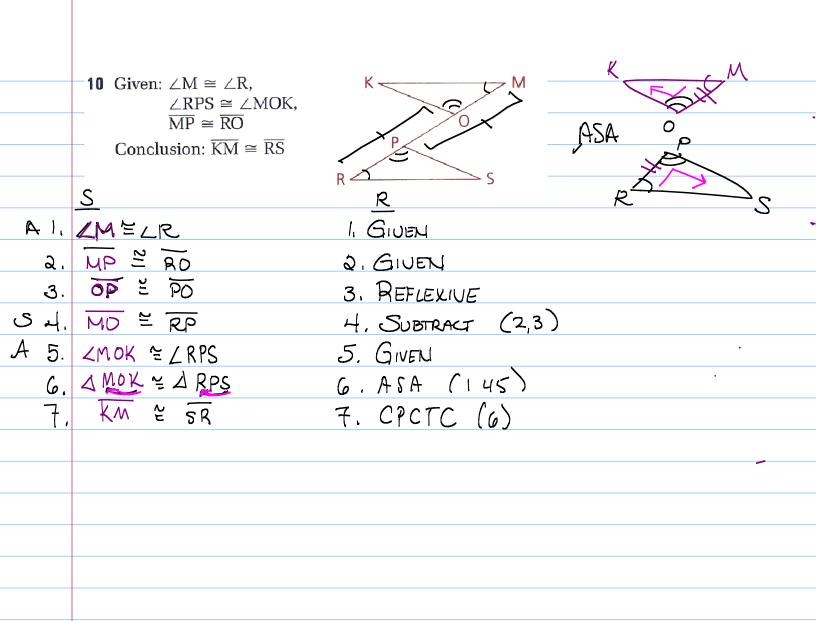
Note Title

10/8/2015

Proof S

- (1) Which pair of B do you need to prove 2?
 - · Draw them separately
 - · Mark all diagrams
- (a) Decide which postulate (ie SSS, SAS, or ASA) can be used.

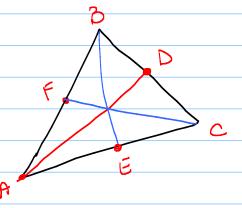
$$\angle B = \angle E$$
 $\angle C = \angle F$
 $\angle S = |2x + 30|$ $\angle C = |2x + 30|$



Definition

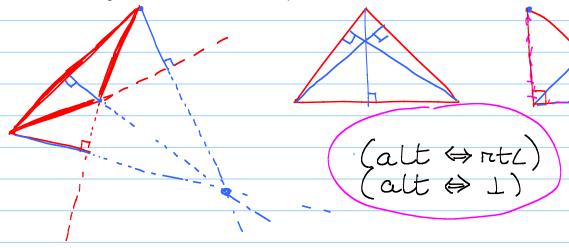
A <u>median</u> of a triangle is a line segment drawn from any vertex of the triangle to the <u>midpoint</u> of the opposite side. (A median divides into two congruent segments, or bisects the side to which it is drawn.)

middle mdpt



Definition

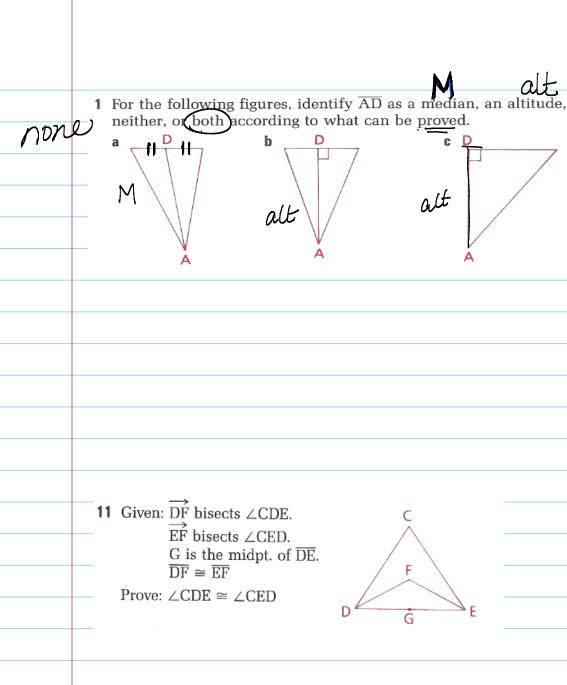
An *altitude* of a triangle is a line segment drawn from any vertex of the triangle to the opposite side, extended if necessary, and perpendicular to that side. (An altitude of a triangle forms right [90°] angles with one of the sides.)



Postulate

Two points determine a line (or ray or segment).

(Aux)



Meach Both HINTS (2-9) homework

2, SAS

6 SW = VW (med ⇒ = sogs)

3,SAS

7 SSS

4 ASA

8 ASA

5 588

9 Given: ⊙O

∠NOG≅∠POG

Concl: RO bis∠NRP.

100

1 Given

 $2 \overline{ON} \cong \overline{OP}$

2

3 ∠NOG ≅ ∠POG

3 Given

4 ∠1 is supp to ∠NOG.

5 ∠2 is supp to ∠POG.

6 ∠1 ≅ ∠2

 $7 \overline{OR} \cong \overline{OR}$ 7

8 △ONR ≅ △OPR

9 ∠NRO ≅ ∠PRO 9

10 RO bis∠NRP.