GT GEOMETRY BERNHARD Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question’s 1-3 are on Friday’s quiz

MCj02983350000[1]

1. Solve for each variable in the problems using the given information.

a)  is a median of .  and .

b)  is an angle bisector of . is a right angle,

c) In are medians intersecting at point M. 

d.  is a misegment of . If , then what other fact to we know?

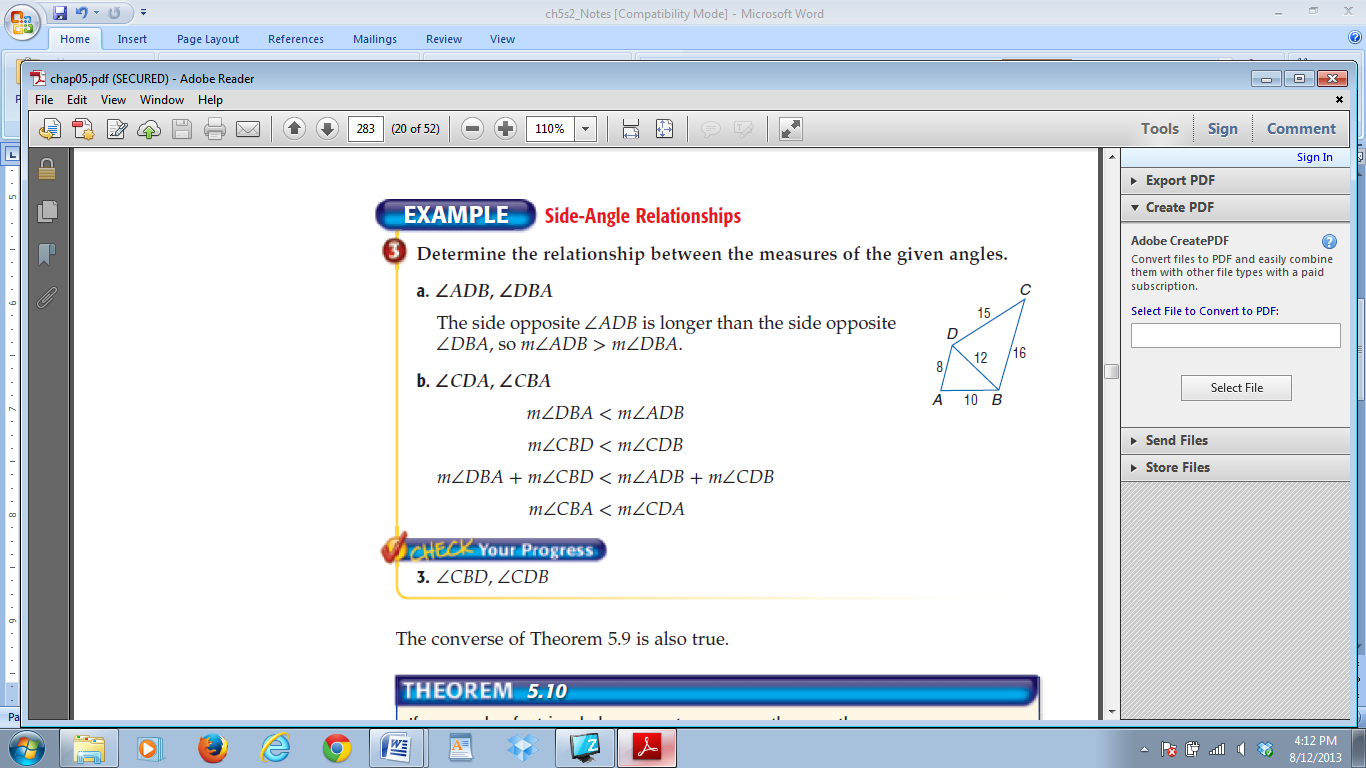
2. Short answer:

a) An architect is designing a high school building. Where should she position the central office so it is equidistant from each of the three school entrances?

b) What is the best name for the point of intersection of the three medians in a triangle?

3. Place a check mark where appropriate.

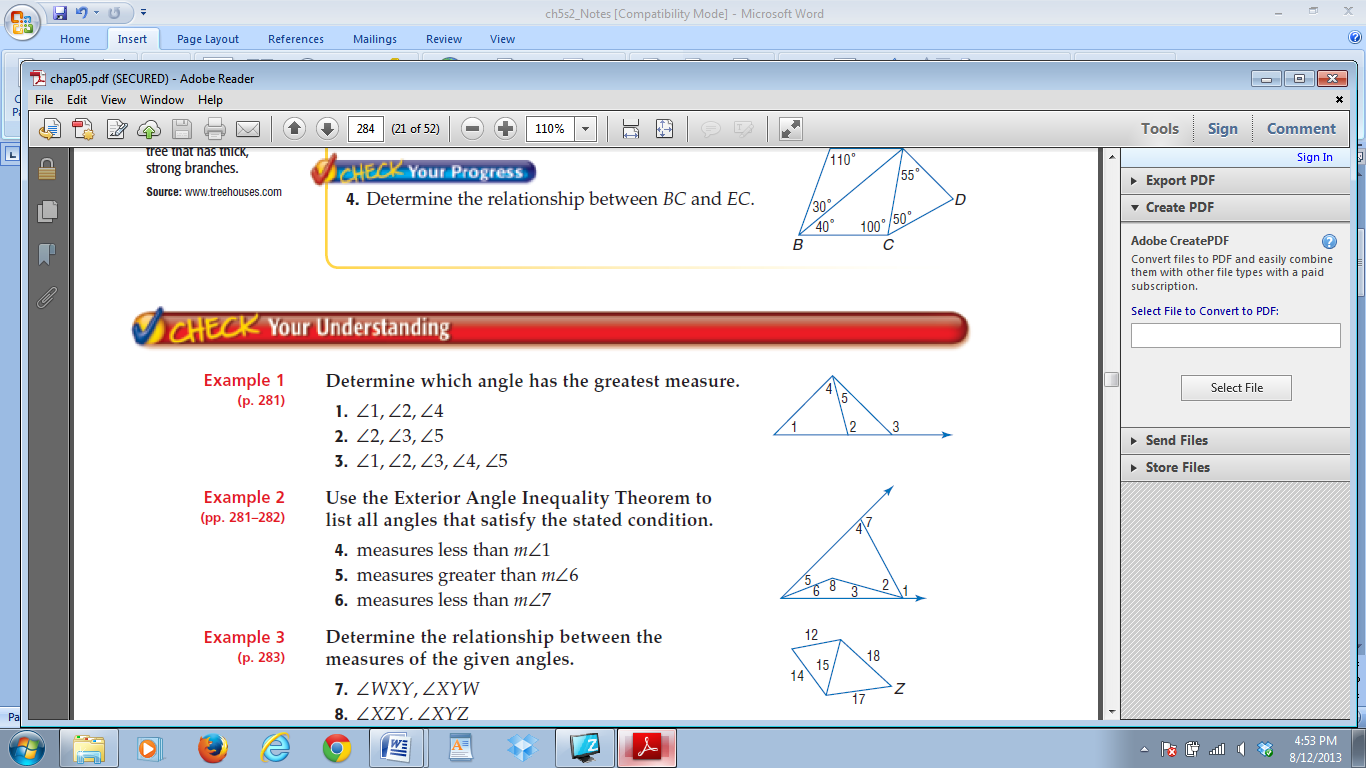
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | INCENTER | CIRCUMCENTER | CENTROID | ORTHOCENTER |
| Is the intersection of the angle bisectors of the triangle |  |  |  |  |
| Is the center of mass of the triangle |  |  |  |  |
| Can be located outside the triangle |  |  |  |  |
| Is equidistant from the vertices of the triangle |  |  |  |  |
| Is the intersection of the perpendicular bisectors of the triangle |  |  |  |  |
| Is located at the right angle of a right triangle |  |  |  |  |

4. Determine the relationship between the measures of the given angles:

a. ∠ADB, ∠DBA

b. ∠CDA, ∠CBA

c. ∠CBD, ∠CDB

5. Determine which angle has the greatest measure

a. ∠1, ∠2, ∠4

b. ∠2, ∠3, ∠5

c. ∠1, ∠2, ∠3, ∠4, ∠5

In  Find each angle measure and then list the sides in order from LEAST to GREATEST