SECONDARY MATH II Module 5 Study Guide: Geometric Figures

Directions: Show ALL work.

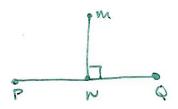
Using the proper symbolic notation, translate the statement into symbols AND draw a picture that is labeled correctly.

Statement

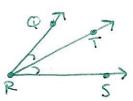
Symbolic Notation

1. Line AB is parallel to line CD.

2. Line segment MN is perpendicular to line segment PQ.



3. Ray RT bisects angle QRS.



4. Point V bisects line segment WX.

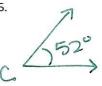


5. Triangle ABC is congruent to triangle DEF.

V bisects WX



6. The measure of angle C is equal to 52°.

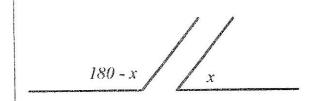


Match each word/concept on the left with the picture depicting that word/concept that word/concept on the right.

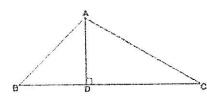
b.

c.

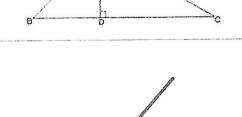
d.



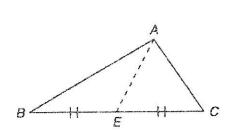
8. Supplementary Angles

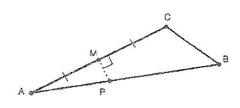


_______9. Altitude

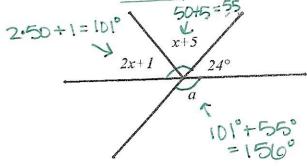


D 10. Median



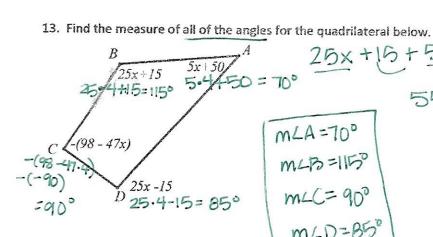


12. Find the measure of a in the diagram below



3x + 30 = 180 3x + 30 = 180 -700 - 30 3x = 150 3 = 3

mLa=156°



$$5x + 50 - 98 + 47x = 36$$

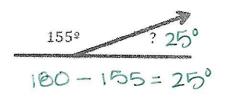
$$102x - 48 = 360$$

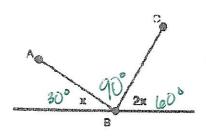
$$+48 + 46$$

$$102x = 408$$

$$102 = 102$$

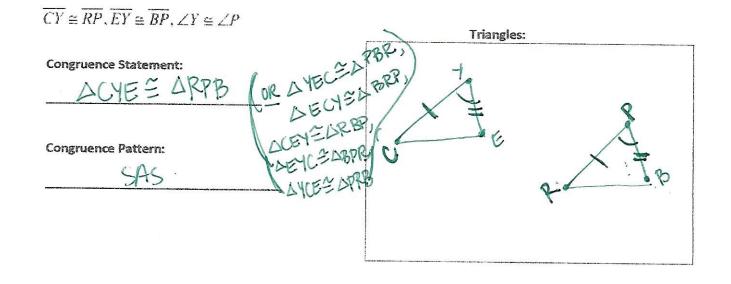
14. Find the measure of the missing angle.

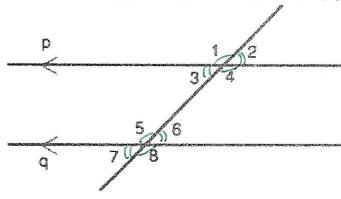




15. Given $m\angle ABC = 90^\circ$, what does x equal? X+2X+90=180

16. Given the following sides, sketch the triangles, write a congruence statement, and decide what triangle congruence pattern (ASA, SSS, or SAS) allows you to say those triangles are congruent.





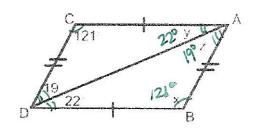
17. Z1 and Z2

18. $\angle 1$ and $\angle 4$

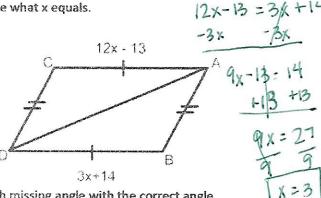
19. 24 and 26

20. ∠2 and ∠8

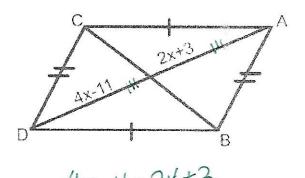
21. Determine what x, y, and z equal.



22. Determine what x equals.



23. Solve for x.



24. Label each missing angle with the correct angle measure.

