

Name:

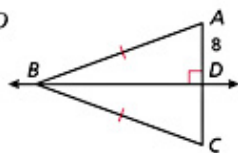
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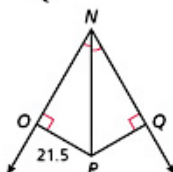
HW #6-5: Quiz Review

Find each measure.

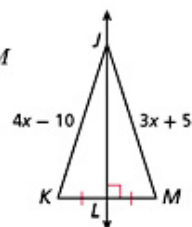
1. CD



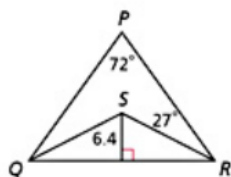
2. PQ



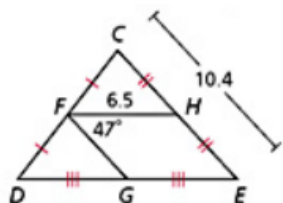
3. JM



4. Find $m\angle SQP$ ($\overline{SQ}$ and $\overline{SR}$ are angle bisectors). Then find the distance from S to $\overline{PR}$.



5. Find:



a. FG

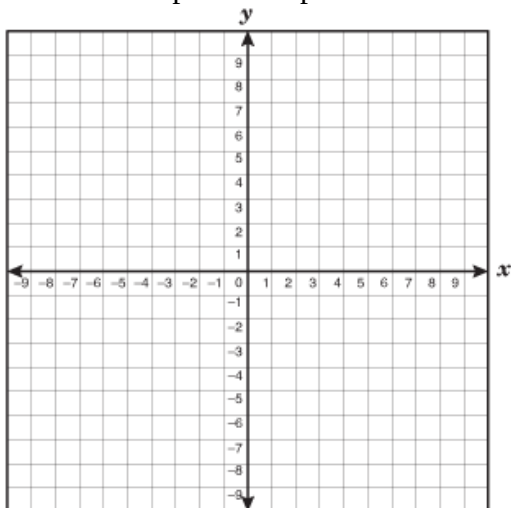
b. DE

c. $m\angle CED$

d. $m\angle FGE$

e. $m\angle FGD$

6. Write the equation of the perpendicular bisector of the segment with endpoints $(1, 4)$ and $(-5, -2)$. Write your answer in slope-intercept form.



Vocab

7. The point of concurrency of the angle bisectors in a triangle is called the _____
8. The point of concurrency of the perpendicular bisectors in a triangle is called the _____
9. Three or more lines that intersect at one point are called _____
10. The point where three or more lines intersect is called the _____
11. A line that passes through the midpoint of a segment and is perpendicular to the segment is called the _____ of the segment.
12. When a point is the same distance from 2 or more objects, the point is said to be _____ from the objects.
13. The circumcenter of a triangle is equidistant from the _____ of the triangle.
14. The incenter of a triangle is equidistant from the _____ of the triangle.
15. The endpoints of a midsegment of a triangle are the _____ of the sides of the triangle.
16. The midsegment's length is _____ the length of the side of the triangle and is always _____ to that side. (*hint: use the Triangle Midsegment Theorem to fill in these blanks*)
17. When is the incenter located outside the triangle? _____
18. When is the circumcenter located on the triangle? _____
19. Can the circumcenter be located outside the triangle? If so, in what case? _____
20. Can an angle bisector of an angle of a triangle also bisect the opposite side of the triangle? If so, draw a diagram to show. If not, explain why not.

Formulas (You will need to remember these, you will use them!)

21. What is the midpoint formula?
22. What is the slope formula?
23. What is the slope-intercept form of a line?
24. What is the point-slope form of a line?
25. What is the distance formula?