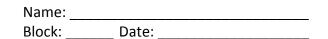
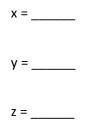
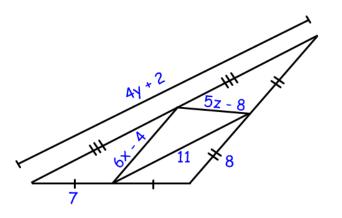
Geometry A Segments of Triangles Review





1. Solve for x, y, and z





2. Using the given triangles, answer the following.

Name all angles that are congruent to $\measuredangle P$.

Name all segments that are congruent to \overline{UT} .

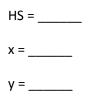
Name all segments that are congruent to \overline{ST} .

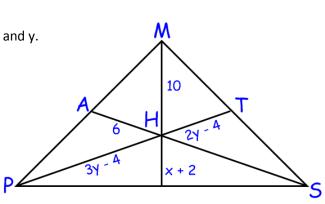
Name all segments that are parallel to \overline{PU} .

MEDIANS

3. What is the name of the point of concurrency of 3 medians? ______

4. H is the centroid of Δ MPS. Find HS and solve for x and y.

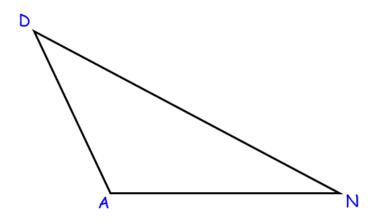




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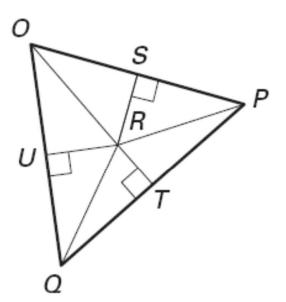
5. Draw all three medians and label everything you know to be congruent.



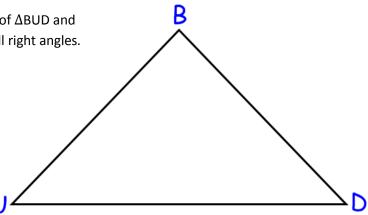
PERPENDICULAR BISECTORS

6. R is the intersection of the perpendicular bisectors of ΔOPQ . OS = 10, QR = 12, and PQ = 22.

- a. Find OP = _____
- b. Find RP = _____
- c. Find OR = _____
- d. Find TP = _____
- e. Find RT = _____



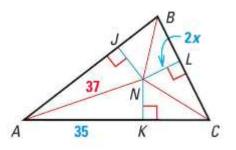
7. Draw all three perpendicular bisectors of Δ BUD and label any congruent angles or sides and all right angles.



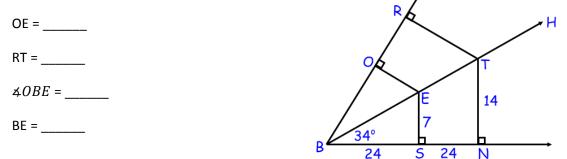
ANGLE BISECTORS

8. \overline{AN} , \overline{CN} , and \overline{BN} are all angle bisectors. Solve for x.

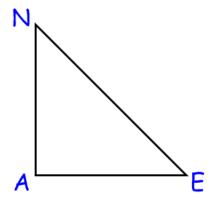




9. \overrightarrow{BH} is an angle bisector. Solve for OE, RT, $\angle OBE$, and BE.



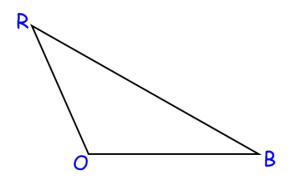
10. Draw all three angle bisectors and label all congruent angles or sides.



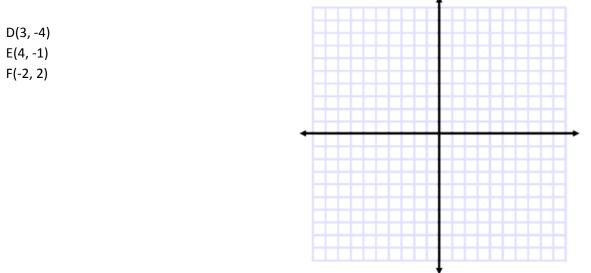
ALTITUDES

11. What is the name of the point of concurrency of 3 altitudes?

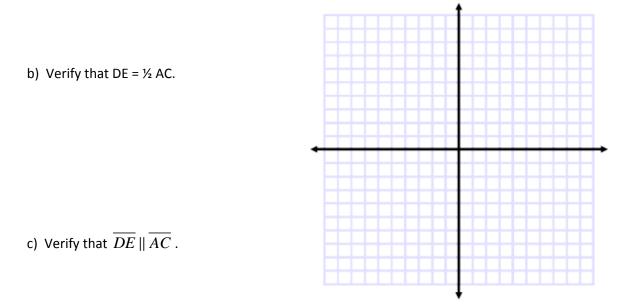
12. Draw all three altitudes for ΔROB . Label all right angles.



13. Find the vertices of the triangle given the endpoints of the midsegments.



- 14. A triangle has the following vertices: A(4, -4), B(2, 8), and C(-6, 2).
 - a) Find the coordinates of the endpoints of the Midsegment DE.



Answer each with Sometimes, Always, or Never

- 15. The point of concurrency of perpendicular bisectors of a right triangle is _____ inside the triangle.
- 16. The point of concurrency of angle bisectors of a triangle is ______ equidistant from the vertices.
- 17. The centroid of a triangle is ______ located at the midpoint of each median.
- 18. For an equilateral triangle an altitude is _____ also an \measuredangle bisector, \bot bisector, and a median.