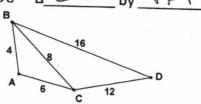
Unit 4A Review - Honors Math 2

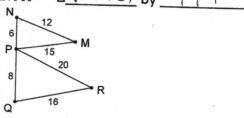
Name:

If the triangles in 1-3 can be proved similar, (1) Complete the similarity statement and (2) Tell which theorem or postulate you would use. If they cannot be proved similar then write "None."

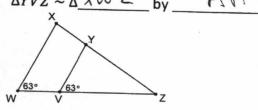
1. DABC ~ D CBD by PDP



3. ANMP~APRQ by PPP



5. DYVZ~DXWZ by AA

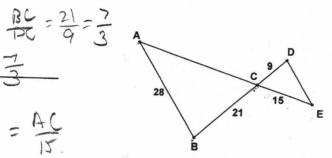


- 2. DABC~DADE by PAP
- 4. DXYZ~DY Z by PAP

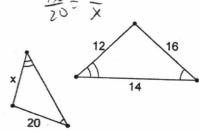
- 6. $\triangle BAC \sim \triangle DEC$
 - a. What is the scale factor of $\triangle BAC$ to $\triangle DEC$?
 - b. Find AC. 35

7 = 20

c. Find DE. 12

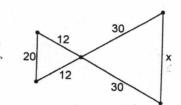


Find the value of x.



8. x = ___________





triangle.	gle joins the Midpoint of two sides of a
b. The midsegment is the length of the third side	parallel to the third side and is
0. The sum of the measures of th	he angles of a triangle is $\frac{180}{}$.
1. The exterior angle of a triangle	e is equal to of the
	of the triangle.
.2. Triangle Proportionality Theore	em and its converse:
	e side of a triangle divides the other two sides
a. A line that is parallel to one	e side of a triangle divides the other two sides
b. If a line intersects 2 sides o	e side of a triangle divides the other two sides of a triangle so that it divides those 2 sides proportionally, then it is
a. A line that is parallel to one ProPortoncell b. If a line intersects 2 sides of	e side of a triangle divides the other two sides
a. A line that is parallel to one Proportional b. If a line intersects 2 sides of parallel	e side of a triangle divides the other two sides Y of a triangle so that it divides those 2 sides proportionally, then it is No. 10 10 10 10 10 10 10 10 10 10 10 10 10
a. A line that is parallel to one ProPortonal b. If a line intersects 2 sides of parallel Use the diagram to answer 13 – 14	e side of a triangle divides the other two sides Y of a triangle so that it divides those 2 sides proportionally, then it is N Side
a. A line that is parallel to one ProPortonal b. If a line intersects 2 sides of parallel Use the diagram to answer 13 – 14	e side of a triangle divides the other two sides Y of a triangle so that it divides those 2 sides proportionally, then it is N Side
a. A line that is parallel to one proportional b. If a line intersects 2 sides of parallel Use the diagram to answer 13 – 14 13. Name the type of each given is a 13 and 15	e side of a triangle divides the other two sides Y of a triangle so that it divides those 2 sides proportionally, then it is A angle pair. d. ∠8 and ∠6 4.

For each problem, use the definitions and postulates we have covered to state a valid conclusion for each set of givens and give a reason for your conclusion. Good conclusions should use all the information in the givens. The reason should be either a brief statement of the definition used or the name of the postulate used. For problems #1 - 8, use the figure elow. Treat each problem as separate (the givens for one problem do not apply to the following problems). You may assume \overline{BTR} , \overline{BGS} , and \overline{RAS} for all eight problems.

1.	Given: \overline{AB} bisects $\angle RBS$.
	Conclusion/Reason: FRBA = F ABS Def K bisechiv
2.	Given: $\overline{RA} \cong \overline{AS}$.
	Conclusion/Reason: RA = AS Def of ongruence
3.	Given: $\angle BAT \cong \angle BAG$, $\angle RAT \cong \angle SAG$ CLOSS AISUSSION
	Conclusion/Reason:
4.	Given: $\overline{BR} \cong \overline{BS}$
	Conclusion/Reason: BR = BS Def of congruence (unit
5.	Given: $\overline{BR} \cong \overline{BS}$, $\overline{TR} \cong \overline{GS}$. Conclusion/Reason:
6.	Given: ∠RAT≅ ∠ATR, ∠ATR≅ ∠TRA
	Conclusion/Reason: FRAT = ETRA transitive
7.	Given: ∠BAR is a right angle.
	Conclusion/Reason: M= BAR = 90 Pef right \$
8.	Note: draw \overline{TG} on the diagram and label its intersection with \overline{AB} as point M .
	Given: \overline{AB} bisects \overline{TG} at M .
	Conclusion/Reason: TM = MG Det Segret 6, sector