

Use, write out and name the postulate used for each of the following. Be sure to also draw a picture for each:

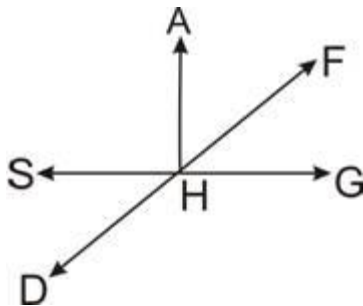
1.  $XZ = 36$ ,  $YZ = 17$ ,  $XY = 19$ , which point is between the other two?

2.  $RS = 19$  and  $RV = 71$ , find  $SV$

3.  $C$  is the midpoint of segment  $AB$ .  $AC = 5x - 6$ ,  $CB = 2x$ , what is the value of  $x$  and the length of  $AB$ ?

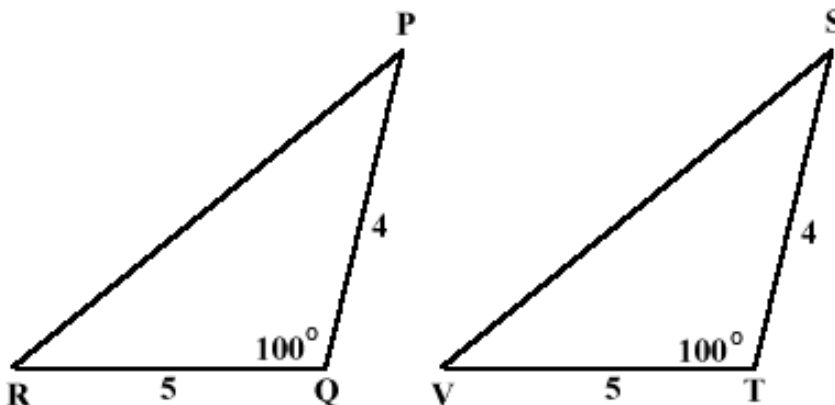
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4. Which angles are vertical? \_\_\_\_\_ Which angles are supplementary? \_\_\_\_\_



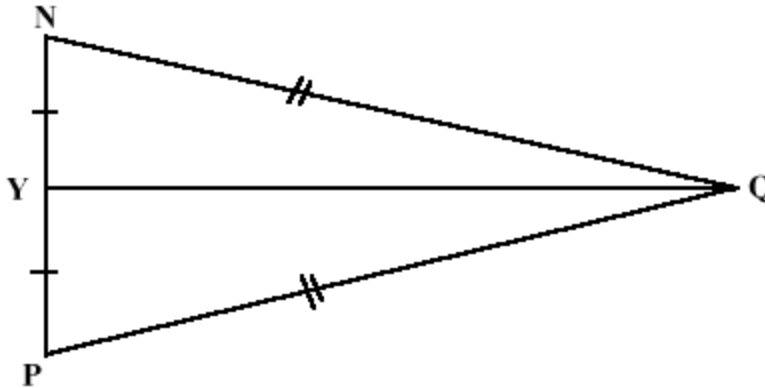
5.

1. Problem: Is triangle  $PQR$  congruent to triangle  $STV$  by SAS? Explain.



6.

1. Problem: Show that triangle QYN is congruent to triangle QYP.



7. Given 2 triangles, angle R is congruent to angle J, segment RS is congruent to segment JK and angle S is congruent to angle K. Draw the triangles, show congruence in the picture.

a) How do we know the triangles are congruent?

b) How do we know segment RT is congruent to segment JL?

8. Define each of the following:

a) Reflexive Property

b) Transitive Property

c) Symmetric Property

d) Definition of Congruent Segments