Geometry
Review Ch. 5
Ch. 5 test tomorrow
Quiz 5.6 today

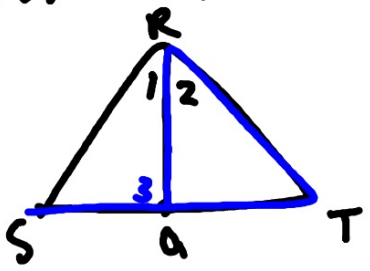
Projects due Tues. start of class
(group)
Plan ahead (in case somebody is absent)

Writing (with picture) due Wed. start of class
(individual)
Can use same photo, but everybody writes their own

23.

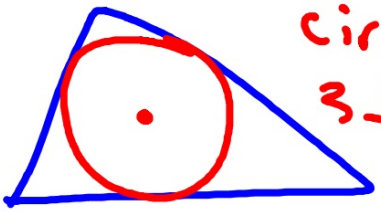
Given $\overline{RQ}$ bisects $\angle SRT$

Prove $\angle SQR > \angle SRQ$



1. $\overline{RQ}$ bis $\angle SRT$	1. given
2. $\angle 1 \cong \angle 2$	2. def bisect
3. $\angle 3 > \angle 2$	3. ext $\angle$.
4. $\angle 3 > \angle 1$	4 Subs.

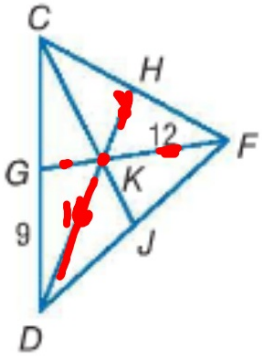
1. **GARDENS** Maggie wants to plant a circular flower bed within a triangular area set off by three pathways. Which point of concurrency related to triangles would she use for the center of the largest circle that would fit inside the triangle?



circumcenter
3 ⊥ bis.

In $\triangle CDF$, K is the centroid and $DK = 16$. Find each length.

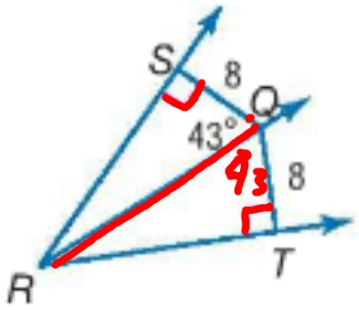
2. KH 8
3. CD 18
4. FG 6



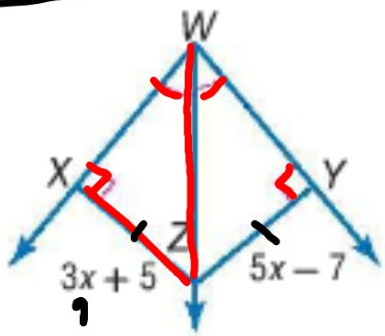
$12 = 2x$

Find each measure.

6. $m\angle TQR$



7. XZ $3 \cdot 6 + 5 = 23$



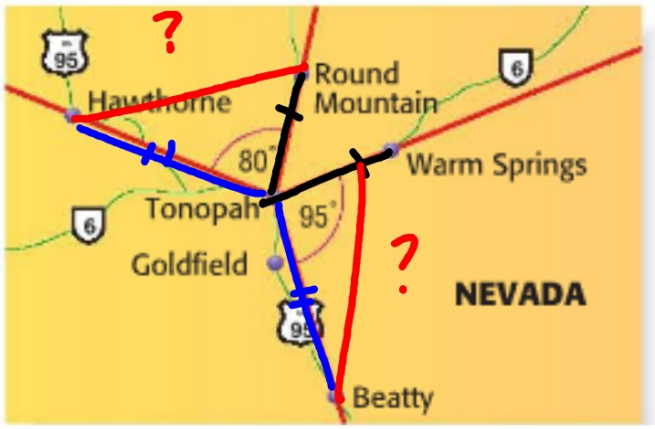
$3x + 5 = 5x - 7$

$-3x - 7 \quad -3x + 7$

$12 = 2x$

$6 = x$

8. **GEOGRAPHY** The distance from Tonopah to Round Mountain is equal to the distance from Tonopah to Warm Springs. The distance from Tonopah to Hawthorne is the same as the distance from Tonopah to Beatty. Determine which distance is greater, Round Mountain to Hawthorne or Warm Springs to Beatty.



9. MULTIPLE CHOICE If the measures of two sides of a triangle are 3.1 feet and 4.6 feet, which is the *least* possible whole number measure for the third side?

A 1.6 feet

C 7.5 feet

B 2 feet

D 8 feet

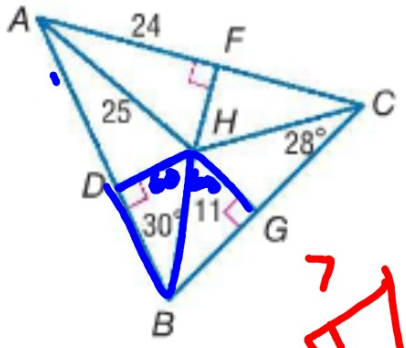
3.1 4.6

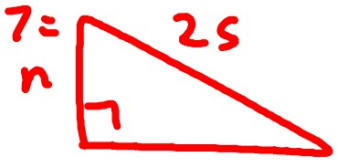
1.5 < x < 7.7

Point H is the incenter of $\triangle ABC$. Find each measure.

10. DH = 7 **11.** BD 8, 5

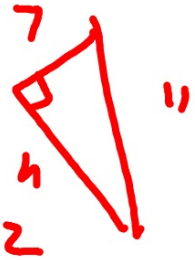
12. $m\angle HAC$ 32 **13.** $m\angle DHG$ 120





$n^2 + 24^2 = 25^2$

$n^2 = 49$



$n^2 = 72$

14. MULTIPLE CHOICE If the lengths of two sides of a triangle are 5 and 11, what is the range of possible lengths for the third side?

F $6 < x < 10$

G $5 < x < 11$

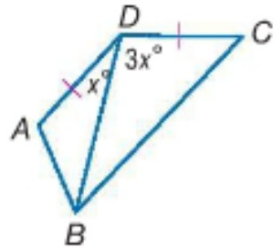
H $6 < x < 16$

J $x < 5$ or $x > 11$

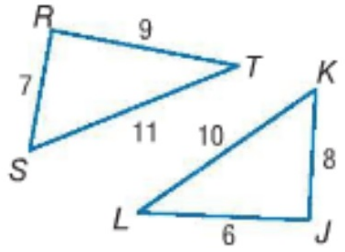
6 16

Compare the given measures.

15. AB and BC



16. $\angle RST$ and $\angle JKL$



Use the figure to determine which angle has the greatest measure.

20. $\angle 1, \angle 5, \angle 6$

21. $\angle 9, \angle 8, \angle 3$

22. $\angle 4, \angle 3, \angle 2$