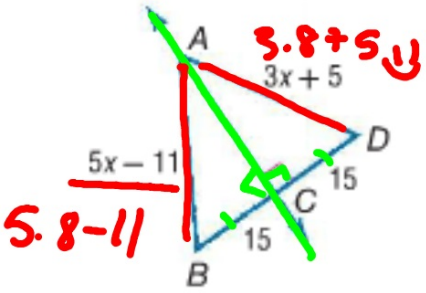
Geometry
Review 5.1-5.2
Quiz 5.1-5.2

Practice 5.3

Find each measure. (Lesson 5-1)

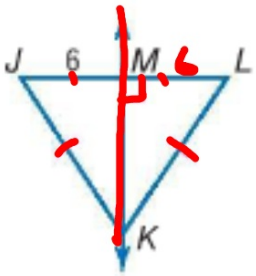
1. AB = 29



3.8+5 = 11

5.8−11

2. JL = 12



$5x - 11 = 3x + 5$

$-3x + 11 \quad -3x + 11$

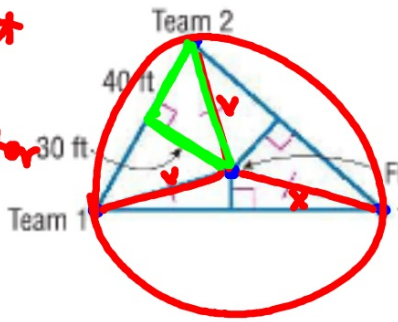
$2x = 16$

$x = 8$

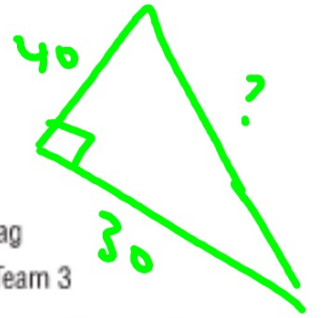
3. CAMP Camp Onawatchi ends with a game of capture the flag. If the starting locations of three teams are shown in the diagram below, with the flag at a point equidistant from each team's base, how far from each base is the flag in feet? (Lesson 5-1)

⊥ bisect sides

Circumcenter



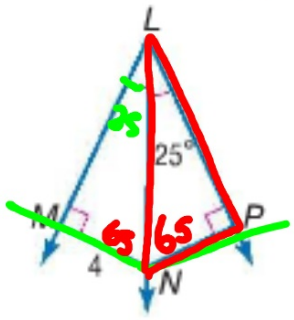
50ft



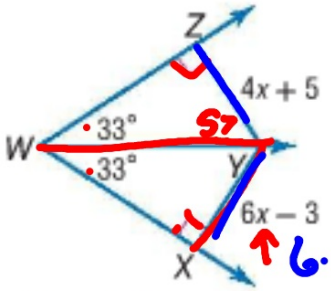
$40^2+30^2=h^2$

Find each measure. (Lesson 5-1)

4. $\angle MNP$ = 130°



5. XY = 21



↑ 6·4 − 3

$6x - 3 = 4x + 5$

$-4x + 3 \quad -4x + 3$

$2x = 8 \quad x = 4$

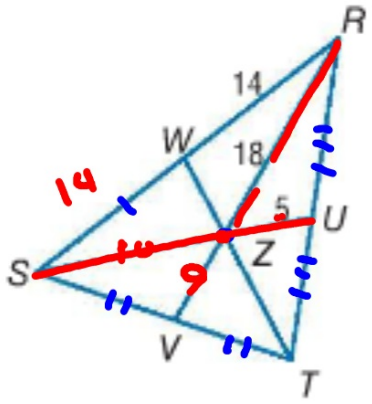
In $\triangle RST$, Z is the centroid and $RZ = 18$. Find each length.

(Lesson 5-2)

6. ZV = 9

7. SZ = 10

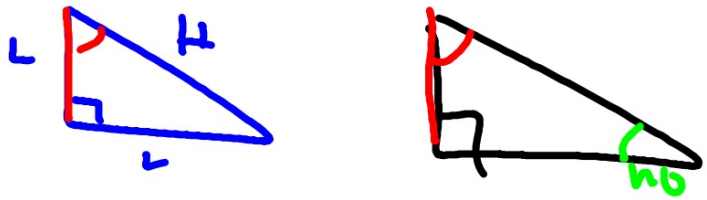
8. SR = 28



Add to triangle congruence page (in notes)

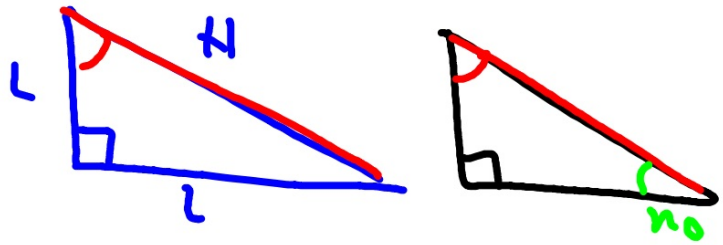
LA

(ASA)



HA

(AAS)

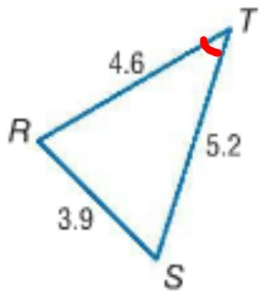


quiz 5.1-5.2

sm ↔ short
lg ↔ long

List the angles and sides of each triangle in order from smallest to largest. (Lesson 5-3)

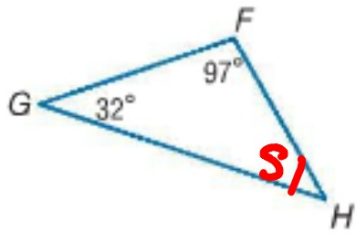
14.



∠T ∠S ∠R

$\overline{RS}$ $\overline{RT}$ $\overline{TS}$

15.



∠G ∠H ∠F

$\overline{FH}$ $\overline{GF}$ $\overline{GH}$

Use the Exterior Angle Inequality Theorem to list all of the angles that satisfy the stated condition. (Lesson 5-3)

17. measures less than $m\angle 8$ $\angle 4\ \angle 3$

18. measures greater than $m\angle 3$ $\angle 9\ \angle 8$

19. measures less than $m\angle 10$

$\angle 4\ \angle ABC$

$\angle 6\ \angle 2$