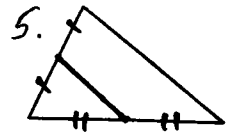
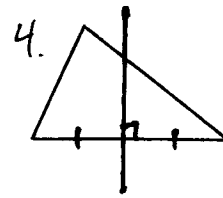
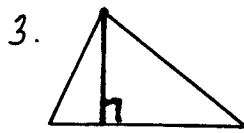
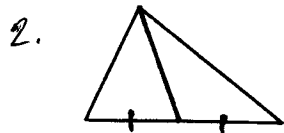
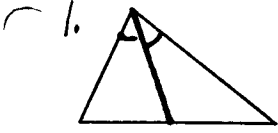
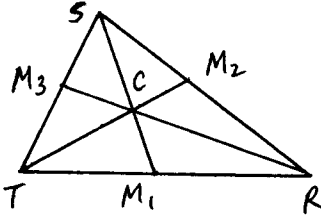


REVIEW PROBLEMS (Chapter 5)

NAME THE FOLLOWING SEGMENTS:



MEDIANS OF $\triangle STR$ ARE DRAWN:



6. If $SM_1 = 12$ then $SC = \underline{\hspace{2cm}}$ and $CM_1 = \underline{\hspace{2cm}}$

7. If $TC = 10$ then $CM_2 = \underline{\hspace{2cm}}$

8. If $RC = y + 6$ and $CM_3 = y + 2$ then
 $y = \underline{\hspace{2cm}}$

MATCH THE FOLLOWING:

___ 9. Angle Bisectors

a. Circumcenter

___ 10. Medians

b. Centroid

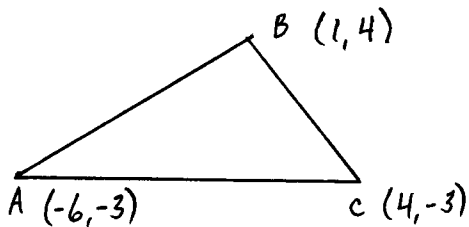
___ 11. Perpendicular Bisectors

c. Orthocenter

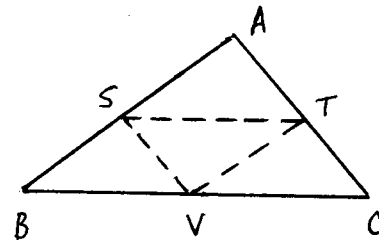
___ 12. Altitudes

d. Incenter

13. Find the equation (in standard form) of the line which contains the median from vertex B:



\overline{ST} , \overline{VT} AND \overline{SV} ARE MIDSEGMENTS OF $\triangle ABC$:

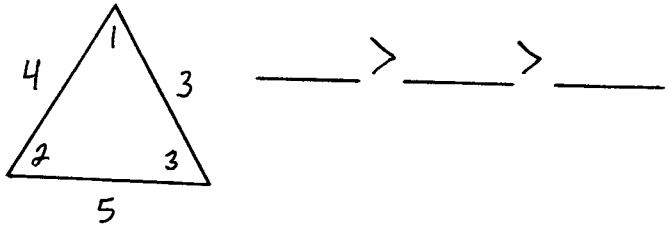


14. If $ST = 10$ then $BC = \underline{\hspace{2cm}}$

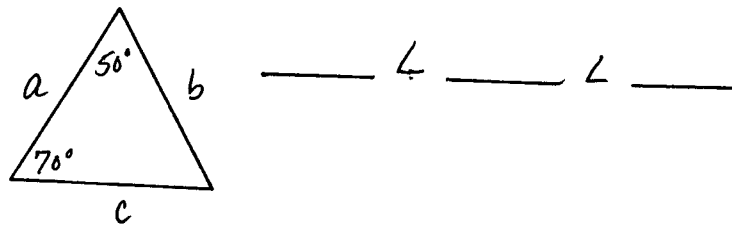
15. If $AS = 4$ then $VT = \underline{\hspace{2cm}}$

16. If $AC = 8x$ and $SV = 3x + 2$ then $x = \underline{\hspace{2cm}}$

17. COMPLETE USING $m\angle 1$, $m\angle 2$
AND $m\angle 3$:



18. COMPLETE USING a , b AND
 c :



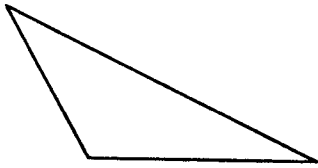
19. TWO SIDES OF A TRIANGLE ARE
10 AND 15. THE THIRD SIDE MUST
BE GREATER THAN _____ BUT
LESS THAN _____

20. WRITE AN INDIRECT PROOF:

Given $n^2 + 6 = 32$

Prove $n \neq 5$

21. CONSTRUCT THE 9-POINT CIRCLE:



ANSWERS

1. Angle Bisector

2. Median

3. Altitude

4. Perpendicular Bisector

5. Midsegment

6. 8, 4

7. 5

8. 2

9. d

10. b

11. a

12. c

13. $7x - 2y = -1$

14. 20

15. 4

16. 2

17. $m\angle 1$, $m\angle 3$, $m\angle 2$

18. c , a , b

19. 5, 25

20. Assume temporarily that $n = 5$.

Then $n^2 + 6 = 25 + 6 = 31$. But this
contradicts the fact that $n^2 + 6 = 32$ so
the assumption was false and $n \neq 5$.

21.

