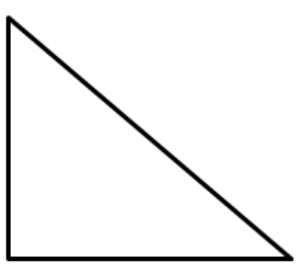
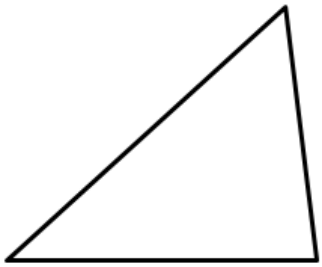
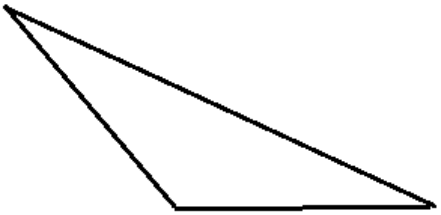
UNIT 2 LESSON 10: MEDIANS AND ALTITUDES

MEDIAN

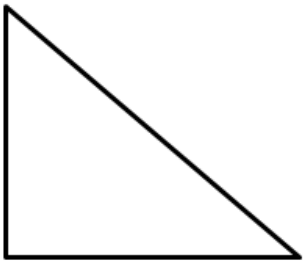


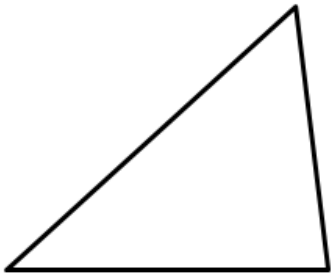


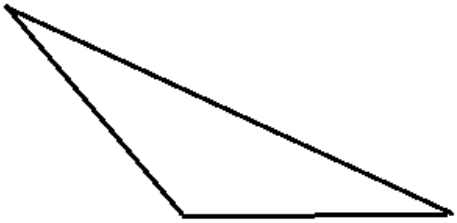


CENTROID

ALTITUDE





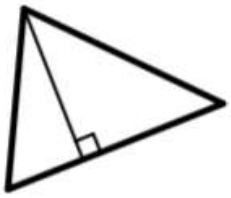


NAME _____ DATE _____

PRACTICE: MEDIAN AND ALTITUDE

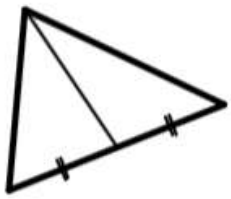
Circle the letter with the name of the segment/line/ray shown.

1.



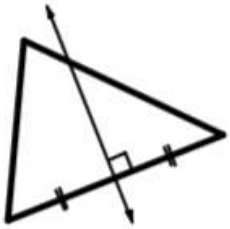
(a) perpendicular bisector
(b) angle bisector
(c) median
(d) altitude

2.



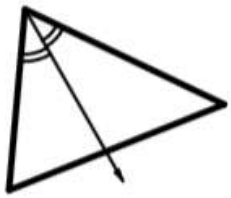
(a) perpendicular bisector
(b) angle bisector
(c) median
(d) altitude

3.



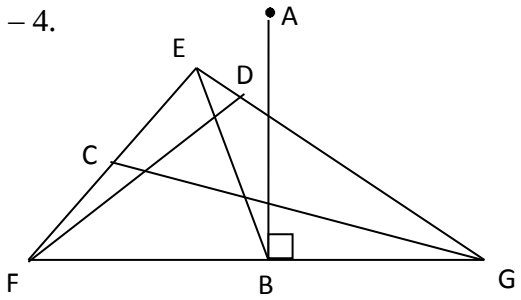
(a) perpendicular bisector
(b) angle bisector
(c) median
(d) altitude

4.



(a) perpendicular bisector
(b) angle bisector
(c) median
(d) altitude

Use the diagram to answer questions 1 – 4.



1. Name an angle bisector in ΔEFG. _____

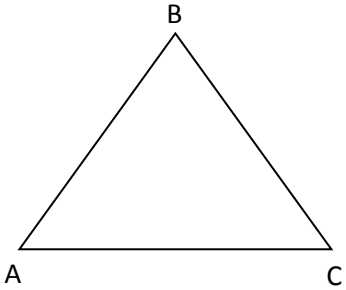
2. Name a median in ΔEFG. _____

3. Name a perpendicular bisector in ΔEFG. _____

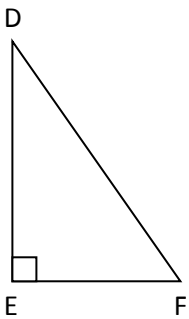
4. Name an altitude in ΔEFG. _____

Draw all altitudes in each triangle using a straightedge.

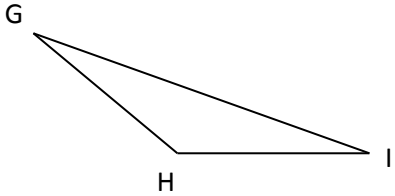
5.



6.

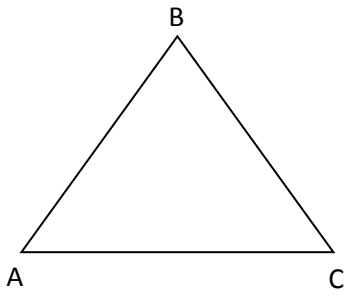


7.

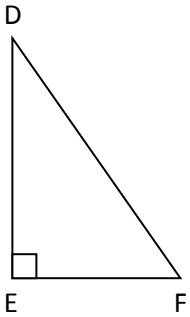


Draw all medians in each triangle using a straightedge.

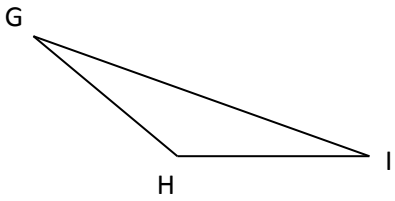
8.



9.



10.



Draw using a straightedge and label a figure to illustrate each situation.

11. $\overline{OQ}$ is a median and an altitude of ΔPOM.

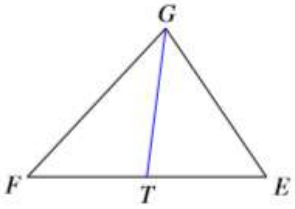
12. $\overline{KT}$ is an altitude of ΔKLM, and L is between T and M.

13. $\overline{HS}$ is an angle bisector of ΔGHI, and S is between G and I.

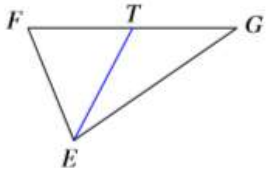
14. ΔNRW is a right triangle with right angle at N. $\overline{NX}$ is a median of ΔNRW. $\overline{YX}$ is a perpendicular bisector of $\overline{WR}$.

Each figure shows a triangle with one or more of its medians.

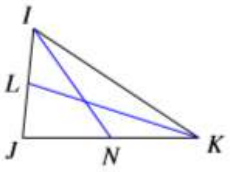
1) Find FE if $TE = 8$



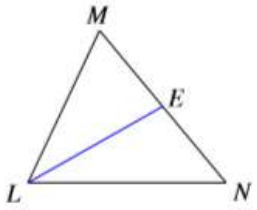
2) Find GF if $TF = 6.3$



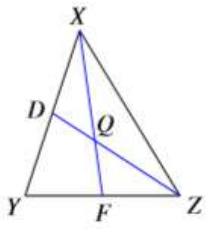
3) Find LJ if $IJ = 6$



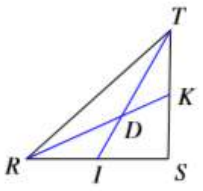
4) Find NM if $EM = 10$



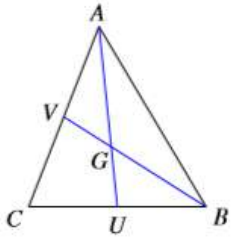
5) Find ZQ if $ZD = 6$



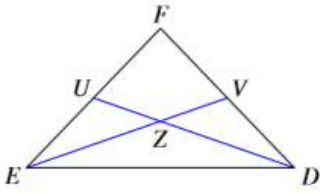
6) Find RK if $DK = 3.4$



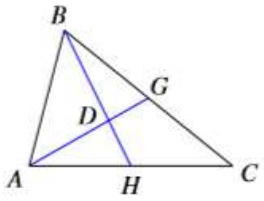
7) Find BG if $BV = 3.9$



8) Find EZ if $ZV = 12$



9) Find DH if $BH = 4.5$



10) Find CG if $KG = 41.4$