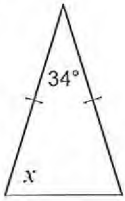


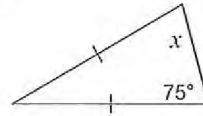
ISOSCELES TRIANGLE THEOREM

Find the value of x .

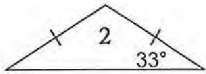
1)



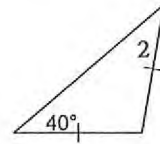
2)



3) $m\angle 2 = x + 122$



4) $m\angle 2 = 7x - 2$



5) In an isosceles triangle, the base angles are _____.

Answers to

1) 73°

2) 75°

3) -8

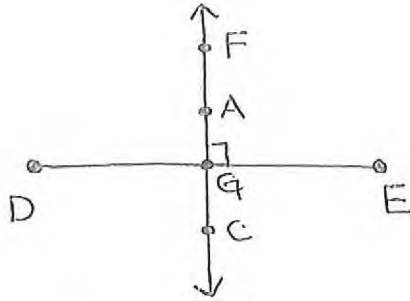
4) 6

5) congruent

PERPENDICULAR BISECTOR THEOREM

1. If a point is on the perpendicular bisector of a segment, then it is _____ from the _____ of the segment.

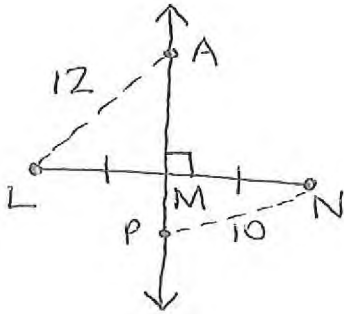
2.



- FD \cong _____
- GE \cong _____
- CE \cong _____
- AD \cong _____

\longleftrightarrow FG is the perpendicular bisector of \overline{DE} .

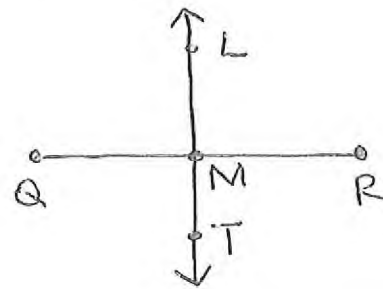
3.



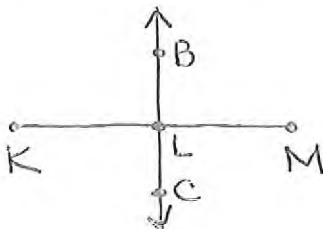
AN = _____

PL = _____

4. \longleftrightarrow LT is the perpendicular bisector of \overline{QR} . Name 3 things that you can conclude.



5. \longleftrightarrow BC is the perpendicular bisector of \overline{KM} . Which statement is not true?



- a) $\angle BLM$, $\angle MLC$, $\angle CLK$, and $\angle KLB$ are right angles.
- b) $\overline{KL} \cong \overline{LM}$
- c) $\overline{CM} \cong \overline{BM}$
- d) L is the midpoint of \overline{KM}

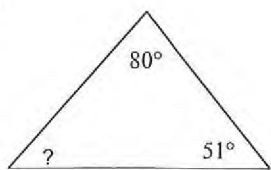
Answers

1. equidistant ; endpoints
2. FE ; GD ; CD ; AE
3. 12 ; 10
4. $LQ \cong LR$
 $TQ \cong TR$
 $MR \cong MQ$
 $\angle LMR, \angle RMT, \angle TMQ, \angle QML$ are right angles
5. C

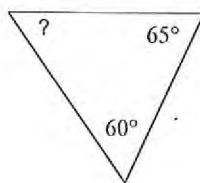
TRIANGLE SUM THEOREM

Find the measure of each angle indicated.

1)

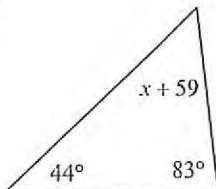


2)

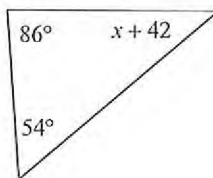


Solve for x .

3)

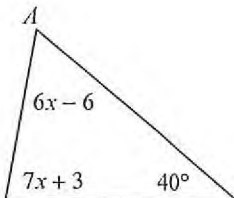


4)



Find the measure of angle A.

5)



6. The sum of the measures of the interior angles of a triangle is _____.

Answers to

1) 49°

5) 60°

2) 55°

(b) 180°

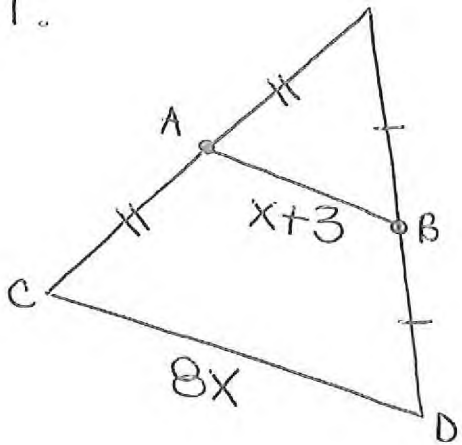
3) -6

4) -2

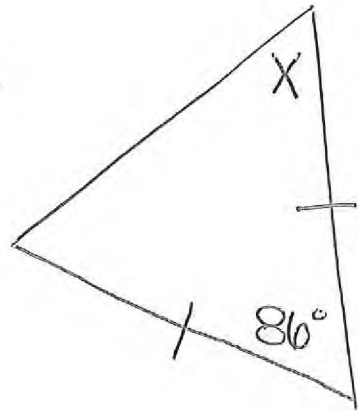
Review station

Find x . Tell what theorem you used.

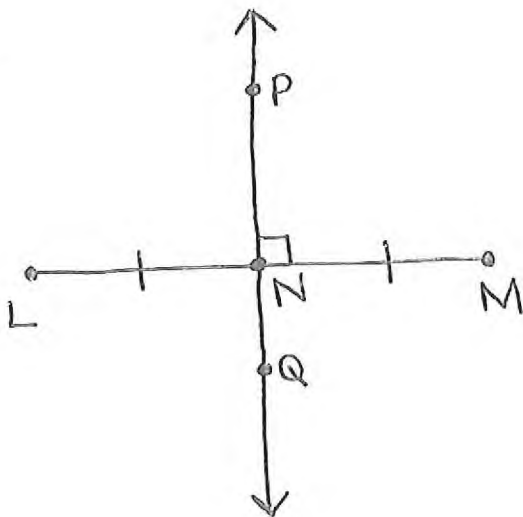
1.



2.



3.

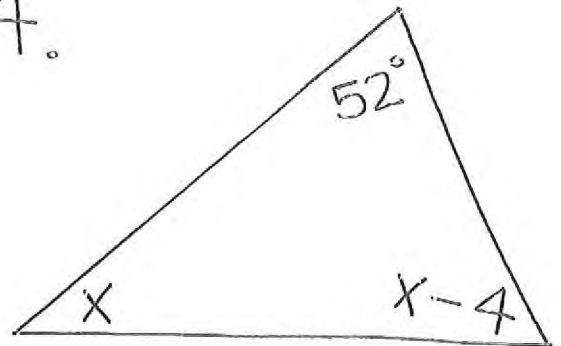


$$PL = 6x + 12$$

$$PM = 8x - 2$$

$$QL = 18x + 7$$

4.



Answers

1. Triangle Midsegment Theorem

$$x = 1$$

2. Isosceles Triangle Theorem

$$x = 47$$

3. Perpendicular Bisector Theorem

$$x = 7$$

4. Triangle Sum Theorem

$$x = 66$$