Change to degrees and minutes.

a.
$$61\frac{2}{3}^{\circ}$$

2.

Change to fractional degrees.

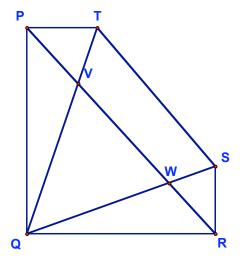
a.
$$\overrightarrow{QV} \cap \overrightarrow{TS} =$$

b.
$$\overline{WP} \cap \overline{VR} =$$

c.
$$\overrightarrow{WP} \cup \overrightarrow{VR} =$$

d.
$$\overrightarrow{SQ} \cup \overrightarrow{SR} =$$

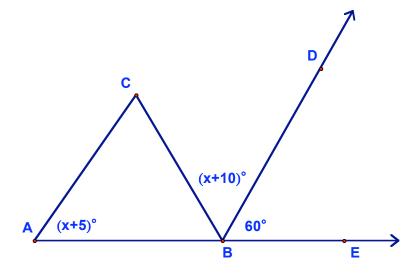
e. How many angles have vertex Q?



5.

Evaluate:

If $\angle CBD \cong \angle DBE$, find m $\angle A$



9.

Find the measure of the angle formed by the hands of a clock at the following times:

- a. 3:00
- b. 4:30
- c. 7:20
- d. 1:45

10.

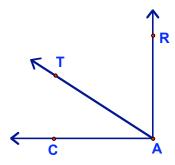
Using the number line shown:

- a. Find PQ
- b. If R's coordinate is 7, why is \overline{PQ} not $\cong \overline{QR}$?
- c. What must the coordinate of R be in order for Q to be the midpoint of \overline{PR} ?



∠CAR is a right angle and m∠CAT = 37°66'10"

Find m∠RAT



15.

Given:
$$\angle 1 \cong \angle 2$$

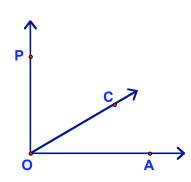
$$m\angle 1 = x + 14$$

 $m\angle 2 = y - 3$

Find y in terms of x

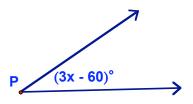
16.

If \angle POA is a right angle and \angle POC is 3 times as large as \angle COA, find m \angle POC.



Using the diagram shown and the fact that ∠P is acute,

a. What are the restrictions on m∠P?



b. What are the restrictions on x?

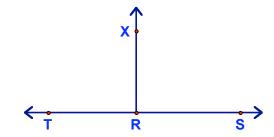
20.

Change $15\frac{2}{9}$ ° to degrees, minutes, and seconds

21.

Given: ∠TRS is a straight angle ∠TRX is a right angle m∠TRS = 2x + 5y m∠XRS = 3x + 3y

Solve for x and y.



Change 72°22'30" to fractional degrees.

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