#1.

a Name in all possible ways, the line containing A, R, and D.

b Name the sides of  $\angle ABC$ 

c What side do  $\angle 2$  and  $\angle 4$  have in common?

d Name the horizontal ray with endpoint C.

e Estimate the measures of  $\angle BAD$ ,  $\angle 2$ , and  $\angle ABC$ 

f Are angles FCD and DCE different angles?

R

H

g Which angle in the figure is  $\angle B$ ?

h 
$$\overrightarrow{EC} \cup \overrightarrow{FA} = \overrightarrow{CA}$$

i 
$$\overrightarrow{EC} \cap \overrightarrow{FA} = \underbrace{\overrightarrow{EF}}$$

$$k \ \overrightarrow{AC} \cap \overrightarrow{DR} = \underline{A}$$

#2.

a Change  $46\frac{3}{4}$ ° to degrees and minutes.

b Change 132°20' to degrees.

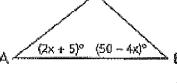
$$\frac{20}{60} = \frac{2}{6} = \frac{1}{3}$$
 BZ  $\frac{1}{3}$ 

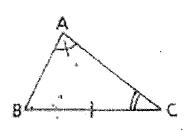
#4.

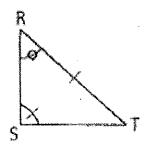
- a According to the diagram, which two segments are congruent? BCZRT
- b According to the diagram, which two angles are congruent? LA = LS

#3.

If 
$$\angle A \cong \angle B$$
 find  $m \angle A$ 

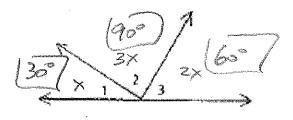




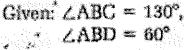


The measures of  $\angle 1$ ,  $\angle 2$ , and  $\angle 3$  are in the ratio 1:3:2. Find the measure of each angle.

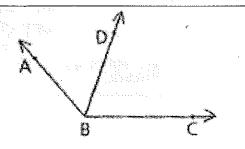
$$x + 3x + 2x = 180$$
  
 $6x = 180$   
 $x = 30$ 



#6.



Prove: ∠DBC is acute.

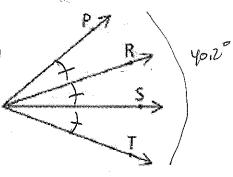


Statements	Reasons	
1 ∠ABC = 130° 2 ∠ABD = 60° 3 ∠DBC = 70°	1 Given 2 Given 3 Subtraction prop. [mlDBC = mlABC = ml.	ABD)
A CODO la manda	* 0° < m < DBC < 90°	

#7. Given: OR and OS trisect ∠TOP.

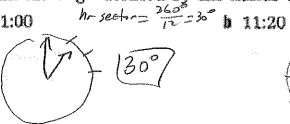
$$\angle TOP = 40.2^{\circ}$$

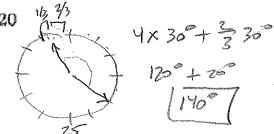
Find:  $m \angle POR = \frac{1}{3} (40,2)$ 



#8. Find the angle formed by the hands of a clock at each time.

a 1:00



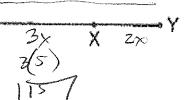


#9.

Given: WY = 25;

The ratio of WX to XY is 3:2.

Find: WX



$$3x+2x=25$$

$$X=5$$

#1.

a Name in all possible ways, the line containing A, R, and D.

b Name the sides of  $\angle ABC$ .

c What side do \( \angle 2 \) and \( \angle 4 \) have in common?

d Name the horizontal ray with endpoint C.

e Estimate the measures of  $\angle BAD$ ,  $\angle 2$ , and  $\angle ABC$ .

f Are angles FCD and DCE different angles?

g Which angle in the figure is  $\angle B$ ?

h 
$$\overrightarrow{EC} \cup \overrightarrow{FA} = \underline{\phantom{A}}$$

$$i \cdot \overrightarrow{EC} \cap \overrightarrow{FA} =$$

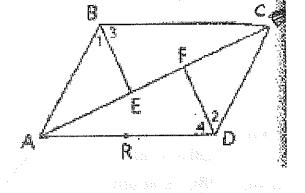
$$\overrightarrow{BA} \cup \overrightarrow{BE} =$$

$$k \overrightarrow{AC} \cap \overrightarrow{DR} =$$

#2.

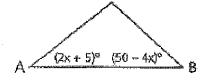
a Change  $46\frac{3}{4}$ ° to degrees and minutes.

b Change 132°20' to degrees.



#3.

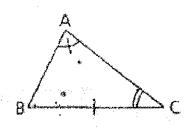
If  $\angle A \cong \angle B$  find  $m \angle A$ 

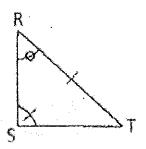


#4.

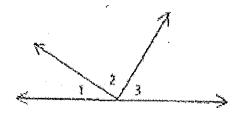
a According to the diagram, which two segments are congruent?

According to the diagram, which two angles are congruent?





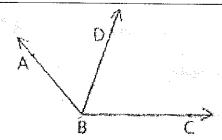
The measures of  $\angle 1$ ,  $\angle 2$ , and  $\angle 3$  are in the ratio 1:3:2. Find the measure of each angle.



#6.

Given: LABC = 130°,

Prove: ZDBC is acute.



 Statements
 Reasons

 1 ∠ABC = 130°
 1

 2 ∠ABD = 60°
 2

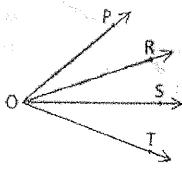
 3 ∠DBC = 70°
 3

 4 ∠DBC is acute
 4

#7. Given: OR and OS trisect ∠TOP.

 $\angle TOP = 40.2^{\circ}$ 

Find: mZPOR



#8. Find the angle formed by the hands of a clock at each time.

a 1:00

b 11:20

#9.

Given: WY = 25;

W

Contract the companies of a highest and

The ratio of WX to XY is 3:2.

Find: WX