

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

2. Name the sides of  $\angle ABC$ .

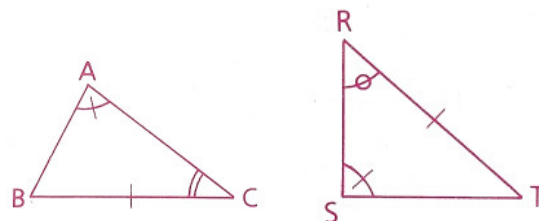
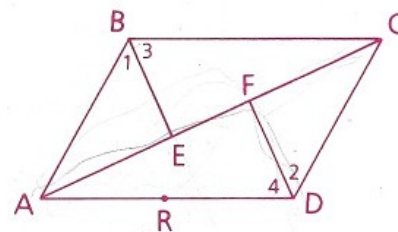
3. Name the horizontal ray with endpoint C.

4. Are angles FCD and DCE different angles?

5. Which angle in the figure is  $\angle B$ ?

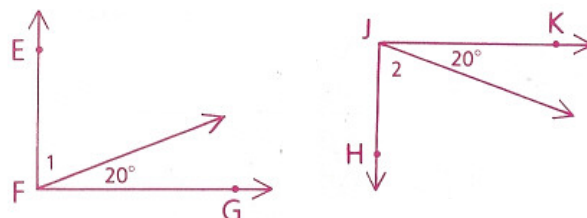
6. According to the diagram, which two segments are congruent?

7. According to the diagram, which two angles are congruent?

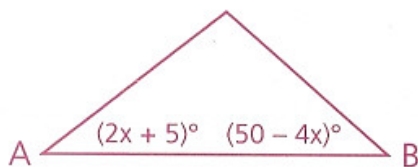


8. If  $\angle EFG$  is obtuse and  $\angle HJK$  is right, is  $\angle 1 \cong \angle 2$ ?

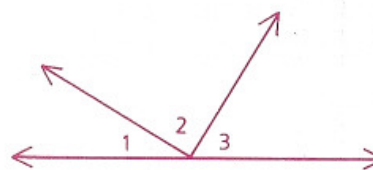
9. If  $\angle EFG \cong \angle HJK$ , is  $\angle 1 \cong \angle 2$ ?



10. If  $\angle A \cong \angle B$ , find  $m\angle A$ .

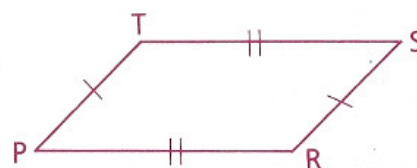
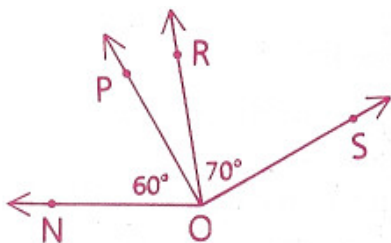


11. The measures of  $\angle 1$ ,  $\angle 2$ , and  $\angle 3$  are in the ratio of 1:3:2. Find the measure of each angle.



12. Is it possible for both  $\angle NOR$  and  $\angle POS$  to be right angles?

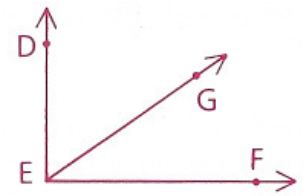
13. The perimeter of PRST is 10 more than  $5(RS)$ . If  $PR = 26$ , find  $RS$ .



14. Given:  $\angle DEG = (x + 3y)^\circ$   
 $\angle GEF = (2x + y)^\circ$   
 $\angle DEF$  is a right angle.

a.) Solve for  $y$  in terms of  $x$ .

b.) If  $\angle DEG \cong \angle GEF$ , find the values of  $x$  and  $y$ .

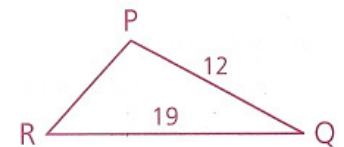


15. Given:  $WY = 25$   
The ratio of  $WX$  to  $XY$  is 3:2.  
Find:  $WX$ .



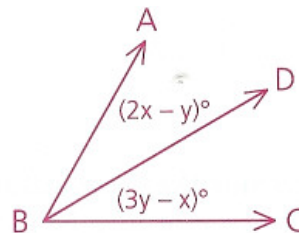
16. The measure of  $\angle A$  is 6 greater than twice the measure of  $\angle B$ . If the angles' sum is  $42^\circ$ , find the measure of  $\angle A$ .

17. The characteristics of a triangle require that  $PR$  be between what two values?



18. Given:  $\overrightarrow{BD}$  bisects  $\angle ABC$ .  
 $m\angle ABC = 25$

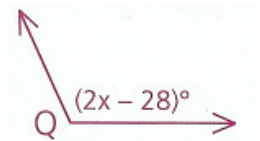
**Solve for  $x$  and  $y$ .**



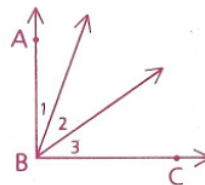
19.  $\angle Q$  is obtuse.

a.) What are the limitations on  $m\angle Q$ ?

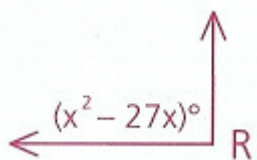
b.) What are the restrictions on  $x$ ?



20.  $\overrightarrow{AB} \perp \overrightarrow{BC}$  and angles 1, 2, and 3 are in the ratio 1: 2: 3.  
Find the measure of each angle.



21. Given that  $\angle R$  is a right angle, solve for  $x$ .



22. Given:  $\overline{PQ} \perp \overline{QR}$

**Find:  $m\angle PQS$**

