

Tender Heart High School, Sec-33B, Chandigarh

Class- V

Date- 04.11.2024

Subject- Mathematics

Teacher- Ms. Sushma

Chapter- 8

Geometry

Angle:- Two rays having a common endpoint form an angle.

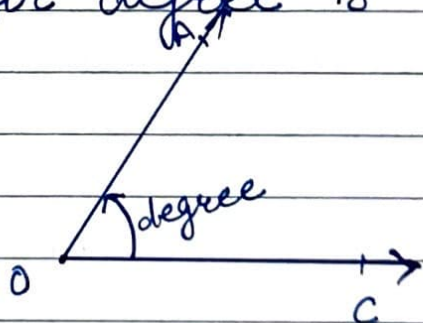
The two rays are called the arms of the angle.

The common endpoint is called the vertex of the angle.

The symbol of an angle is $\angle$.

An angle is measured in a unit called **degree**.

The symbol for degree is $^{\circ}$.



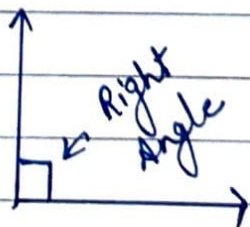
OA, OC $\rightarrow$ Two rays
O $\rightarrow$ Common vertex

The vertex is always written in the middle while naming an angle.

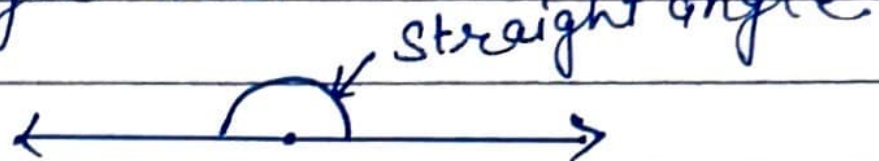
Types of Angles:-

1. Right angle $\rightarrow$

An angle that measures exactly 90°



2. Straight angle:- An angle that measures 180° .



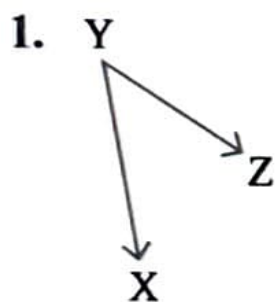
3. Acute angle:- An angle smaller than a right angle is called an acute angle.

4. Obtuse angle:- An angle more than a right angle but less than a straight angle is called an obtuse angle.

Exercise 8.1

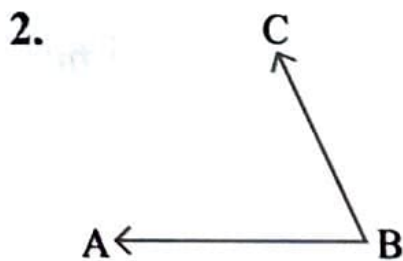


A. Name the arms and the vertex of each angle.



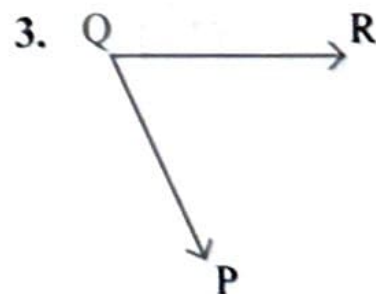
Arms: YX and YZ

Vertex: Y



Arms: BA and BC

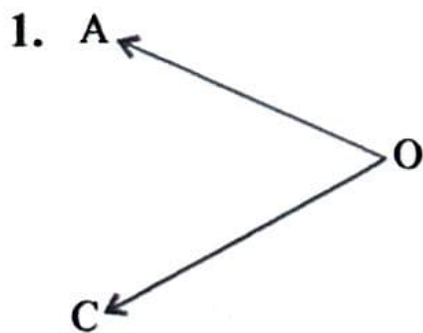
Vertex: B



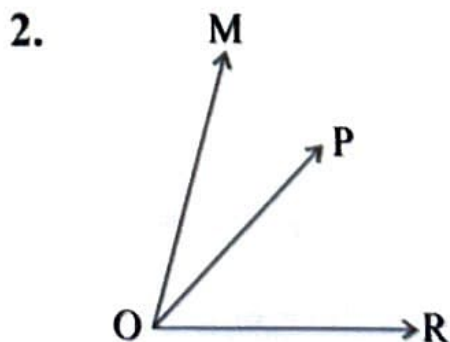
Arms: QR and QP

Vertex: Q

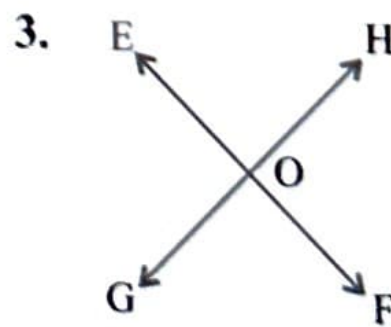
B. Name the angles with O as the vertex.



$\angle AOC$



$\angle MOP$, $\angle POR$, $\angle MOR$



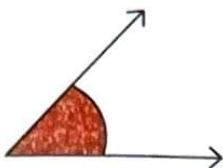
$\angle EOH$, $\angle HOF$, $\angle FOG$, $\angle GOE$

Exercise 8.2

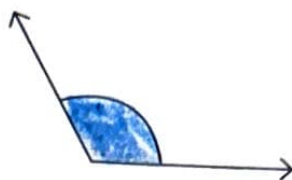


A. Colour the right angles green, acute angles red and obtuse angles blue.

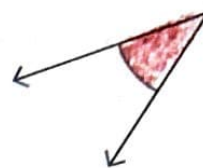
1.



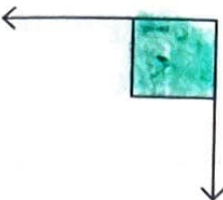
2.



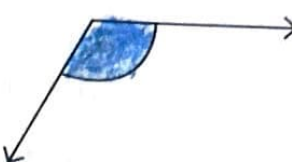
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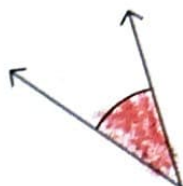
4.



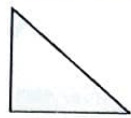
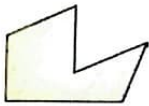
5.



6.



B. Count and write the number of types of angles inside each shape.

Shape	How many?		
	Right angles	Acute angles	Obtuse angles
1. 	1	2	0
2. 	4	0	0
3. 	1	2	3
4. 	0	0	0

