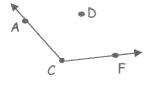
## 11-41 Amgle Measuire

Term:	Definition:	Example:	Notation:
Ray	A ray is a part of a <u>line</u> . It has one <u>enapt</u> and extends in one direction.	R S	RS
Opposite Rays	Two rays that share a <u>COMMON</u> endpoint and are <u>COllinear</u> .	M A N	AM 4 AN
Angle	Formed by 2 non-collinear rays that share a Common endpoint.	A	CFCA ZACF ZC
Sides	The Yay S of an angle are called sides of the angle.	C F	A CF
Vertex	The vertex is the common enapoint of the two sides.		C
Degree	The unit of measure of an <u>angle</u> .  The degree results from dividing the distance around a circle into <u>360</u> parts.	1 degree = <u>1</u> of a turn 360 around a circle!	mZACF= 120°
Measuring an angle	To measure an angle, you use a	The state of the s	m21=32°
Congruent Angles	Angles that have the same MEASUMC.	1 2	
Angle Addition Postulate (Pg 149)	If X is in the interior of angle ABC, then $m \angle ABX + m \angle ABC$ = $m \angle ABC$	A Parac	hutc
Angle Bisector	A ray that divides an angle into angles.	A C F	ZACD ZDCF

## An Angle divides a plane into 3 distinct parts which consist of:

- Points in the Interior of an angle:
- Points in the Exterior of an angle:\_

• E



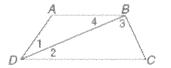
• Points on the angle itself:\_\_

Type of Angle:	Definition:	Draw an example:
Acute angle	meas, less than	2
Right angle	meas, = 90°	
Obtuse angle	meas greater than 90°	
Straight angle	meas. = 180°	James and the second se

## Exercises

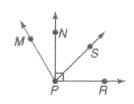
## Refer to the figure.

- 1. Name the vertex of  $\angle 4$ .
- 2. Name the sides of  $\angle BDC$ .
- 3. Write another name for  $\angle DBC$ . 23,  $\angle CBD$



Measure each angle in the figure and classify it as right, acute, or obtuse.

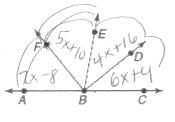
- 4. LMPR ONTUSE
- 6. ∠NPS



ALGEBRA In the figure,  $\overrightarrow{BA}$  and  $\overrightarrow{BC}$  are opposite rays,  $\overrightarrow{BD}$  bisects  $\angle EBC$ , and  $\overrightarrow{BF}$  bisects  $\angle ABE$ .

7. If  $m \angle EBD = 4x + 16$  and  $m \angle DBC = 6x + 4$ ,





8. If  $m \angle ABF = 7x - 8$  and  $m \angle EBF = 5x + 10$ , find  $m \angle EBF$ .



