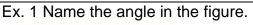
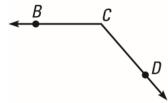
## Naming Angles

An **angle** consists of two rays that have the same endpoint.

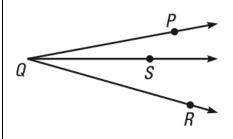
The rays are the sides of the angle.

The endpoint is the **vertex** of the angle.





Ex.2 Name the angles in the figure.



Classifying Angles

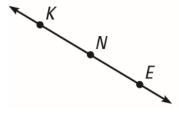
**Acute**: measures between  $0^o$  and  $90^o$ 

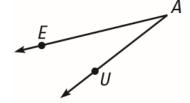
**Obtuse**: measures between  $90^o$  and  $180^o$ 

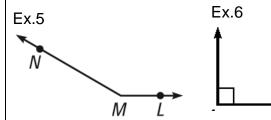
Right: measure is 90°

**Straight**: measure is  $180^o$ 

Ex.3 Classify the angles. Ex.4





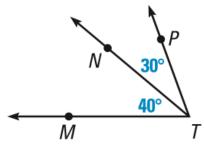


## **Angle Addition Postulate**

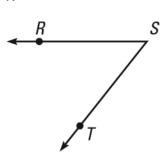
If you two angles are side by side, then the measure of the resulting angle will be equal to the sum of the two original angle measures.

 $m \angle RSP + m \angle PST = m \angle RST$ 

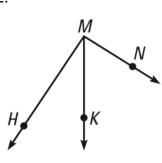
## Ex.7 Find the measure of $\angle PTM$ .



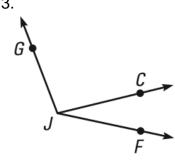
# Name the angles in the figure.



2.



3.



State whether the angle appears to be acute, right, obtuse, or straight.

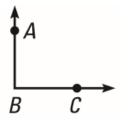
4. 180°

5. 34°

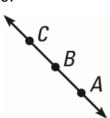
6. 100°

7. 9°

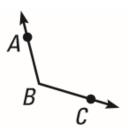
8.



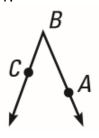
9.



10.

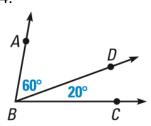


11.

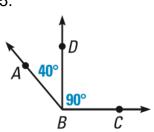


Find the measure of  $\angle ABC$ .

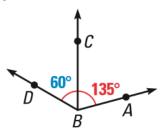
4.



5.

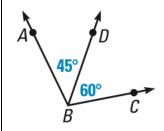


6.

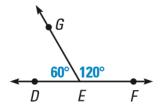


Find the measure of the angle.

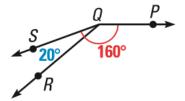
15. *m∠ABC* 



16. *m∠DEF* 



15. *m∠PQR* 



### Vocabulary of Lines

Word	Definition	Picture
Point	An exact location on a given plane.	
Line	Defined by two points and is continuous.	
Ray	Defined by one endpoint and is continuous,	
Line Segment	Defined by two endpoints.	
Intersecting Lines	Two lines that intersect.	
Perpendicular Lines	Two lines that meet at a 90° angle.  Symbol: 上	
Parallel Lines	Two lines that never intersect Symbol:	

### Problem-Based Task 1

a. Identify a line in the submitted logo.

b. Identify a ray in the submitted logo.

A C E

c. Identify a line segment in the submitted logo.

d. Identify two pairs of parallel line segments in the submitted logo.

e. Identify one pair of perpendicular lines in the submitted logo.