

Content and Language Objective:

Students will learn how to show measurement of angles and segments on figures and be able explain their reasoning used in solving these problems after:

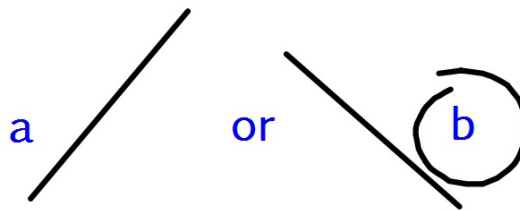
- a.) practicing using tools of measurement (protractor and ruler)
- b.) learning the symbols for marking figures

Warm-Up:  $y = -2x + 5$

slope:  $-2$

Y-intercept:  $5$

which line would  
this look like?



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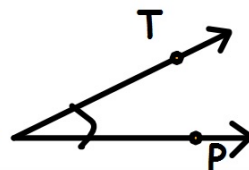
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VOCABULARY

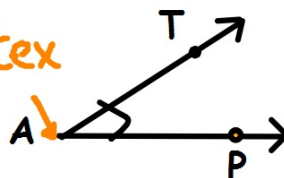
**ANGLE**

An angle is formed by two rays that share a common endpoint  $\angle A$  or  $\angle TAP$  or  $\angle PAT$



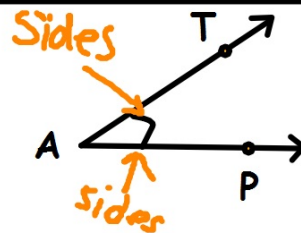
**VERTEX**

The vertex is the common endpoint of the two rays *vertex*



**SIDES**

The sides are the two rays that form the angle

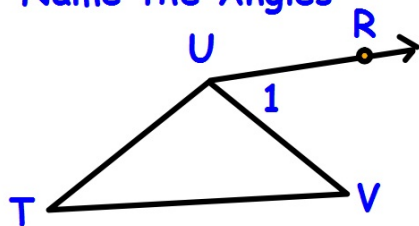


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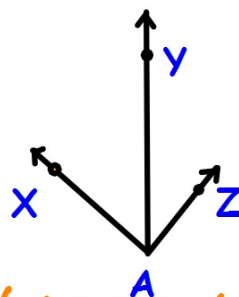
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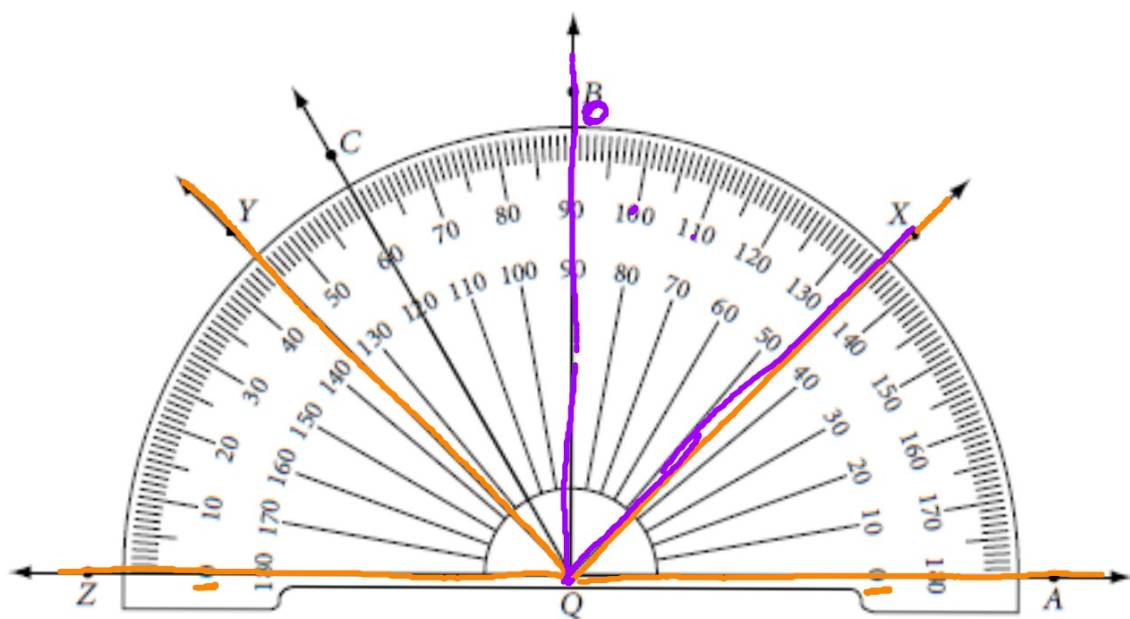
Name the Angles



$\angle RUV$   $\angle TUR$   
 $\angle RUT$   $\angle VUT$   
 $\angle VUR$   $\angle TVU$   
 $\angle 1$



$\angle XAZ$   $\angle ZAX$   
 $\angle XAY$   $\angle YAX$   
 $\angle YAZ$   $\angle ZAY$



Step 1: Place the center mark of the protractor on the vertex

Step 2: Line up the 0-mark with one side of the angle

Step 3: Read the measure on the protractor scale

Step 4: Be sure you read the scale that has the 0-mark you are using!

$\angle CQZ = 60^\circ$   
 $\angle YQA = 135^\circ$   
 $\angle BQX = 45^\circ$

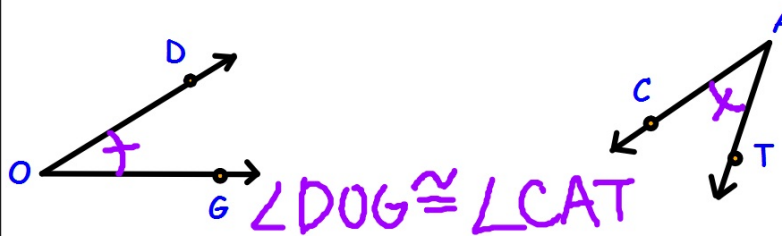
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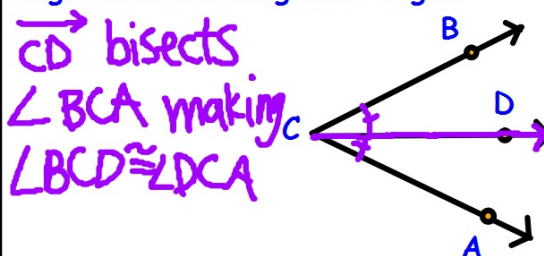
**CONGRUENT  
ANGLES**

Two angles are congruent if and only if they have the same measurement



**ANGLE  
BISECTOR**

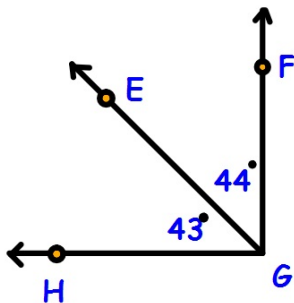
A ray is the angle bisector if it contains the vertex and divides the angle into two congruent angles



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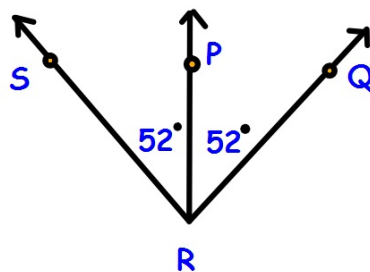


1. Name the Angle  
Bisector if there is one

No bisector

2. Name all the congruent  
angles (use the congruent  
symbol and name the angles)

None

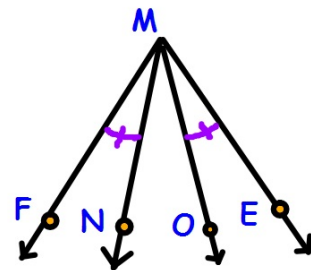


1. Name the Angle  
Bisector if there is one

$\overrightarrow{RP}$

2. Name all the congruent  
angles (use the congruent  
symbol and name the angles)

$\angle SRP \cong \angle PRQ$



1. Name the Angle  
Bisector if there is one

None

2. Name all the congruent  
angles (use the congruent  
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$\angle FMN \cong \angle OME$



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**CLASS ASSIGNMENT**

**PAGE: 42-43; # 1,3,4,7-16**

