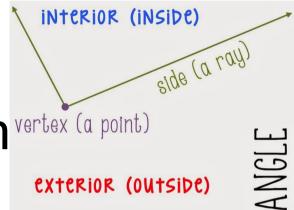
Name\_\_\_\_Period\_\_\_\_

Unit 9 Day 1

Angle Relationsh vertex (a point)

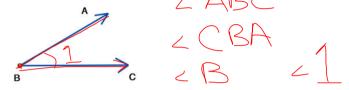


I can Recognize and Calculate
Angle Relationships

What is the definition of an angle?

Two rays with a common vertex

How do you name an angle?



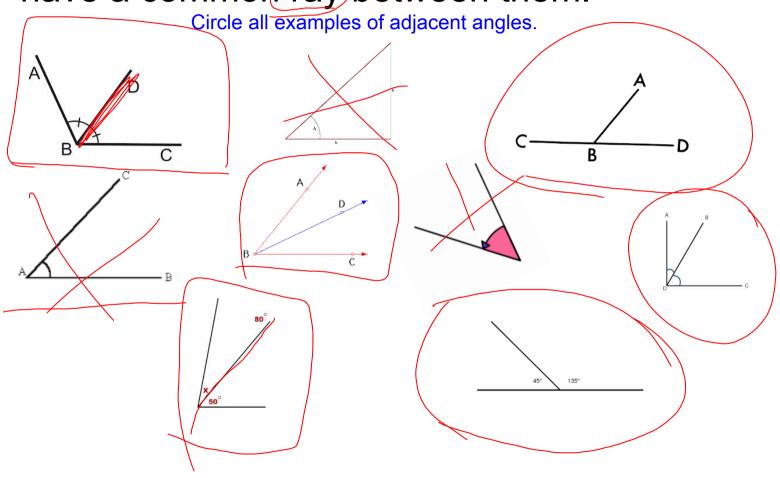
What type of angles are there? (draw an example of each)

Straight 180 achter 70

Right= 90°

## Adjacent Angles:

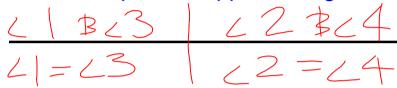
Two angles that are next to each other and have a common ray between them.



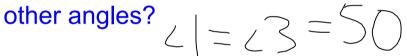
## Vertical Angles:

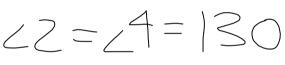
Two angles that are opposite each other when two lines interesect.

Name the pairs of opposite angles.



If angle 1 = 50 degrees what are the measurements of the other angles?





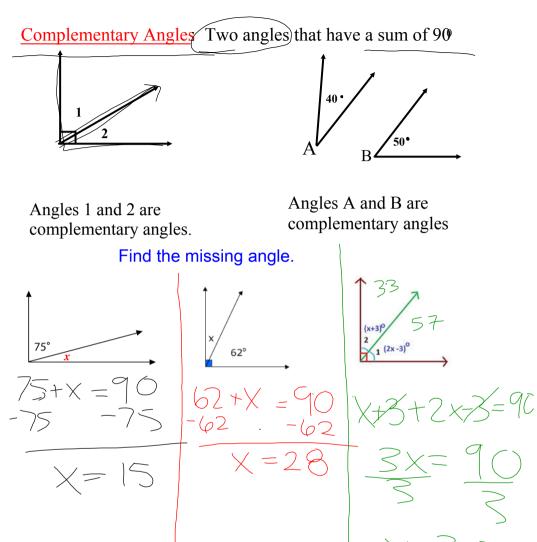
What is the sum of any two adjacent angles?

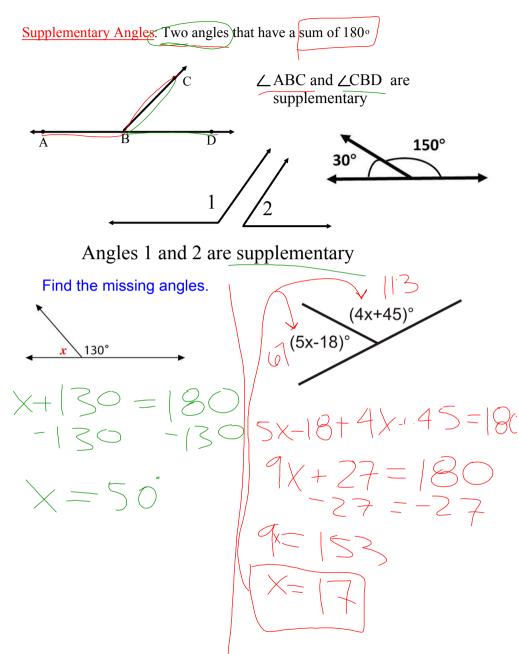


What is the sum of all 4 angles?

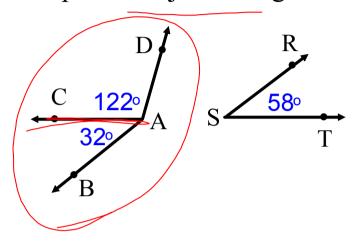


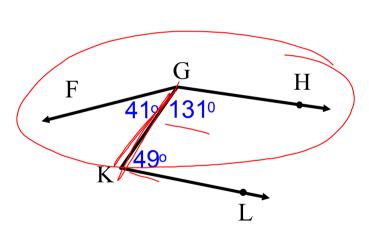
Are all vertical angles congruent?(equal?)





Name a pair of complementary angles, a pair of supplementary angles, and a pair of adjacent angles.





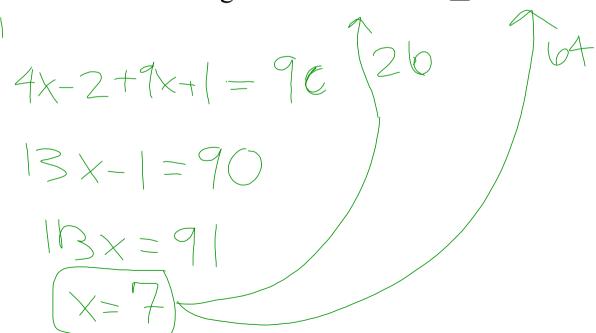
1. Given that  $\angle 1$  is a <u>complement</u> of  $\angle 2$  and  $\angle 1=68$ , find  $m \angle 2$ .

 $m_2 = 90 - 68 = 22$ 

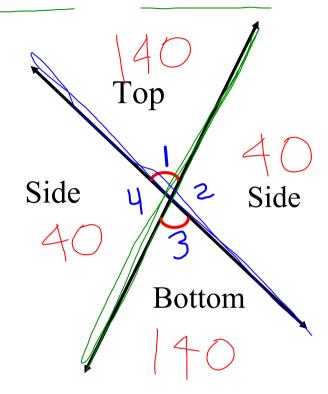
2. Given that  $\angle 3$  is a supplement of  $\angle 4$  and  $\angle 4=56^\circ$ , find  $m \ge 3$ .

m23 = 180 - 56 - 124

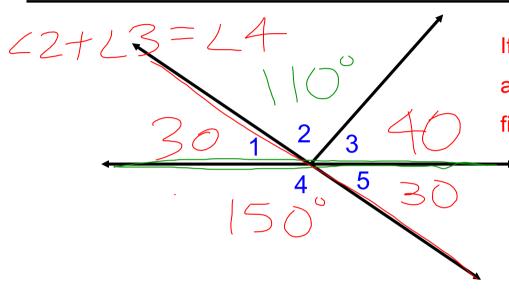
3.  $\geq 1$  and  $\geq 2$  are complementary angles. Find the measures of the angles if  $\geq 1 = 4x-2$  and  $\geq 2 = 9x+1$ .



<u>Linear Pair</u>: Two angles that are <u>adjacent</u> and <u>supplementary</u>.



If angle 2 is 40 degrees, what are the others?



If angle 1 is 30 degrees and angle 3 is 40 degrees, find all the others.

Name a pair of vertical angles.

Name a linear pair.

Name a pair of supplementary angles.

Name a pair of complementary angles. Nowe

Name a pair of congruent angles.

Find the value of x and y.

