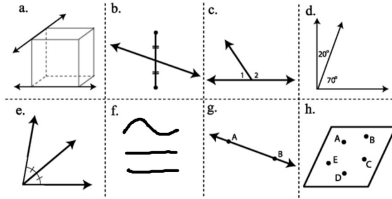


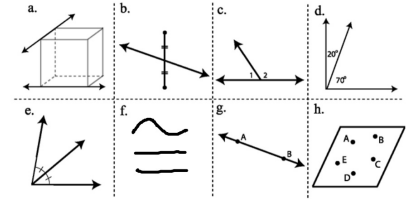
### Warm-up

- \_\_\_ Line AB
- \_\_\_ Linear pair angles
- \_\_\_ Coplanar points
- \_\_\_ Congruent (symbol)
- \_\_\_ Skew lines
- \_\_\_ Complementary angles
- \_\_\_ Segment bisector
- \_\_\_ Angle bisector



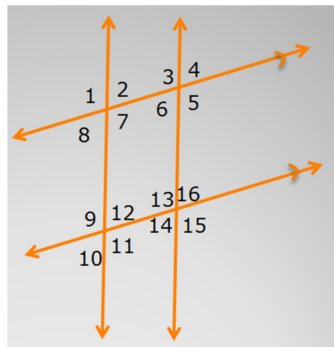
### Warm-up

- \_\_g\_\_ Line AB
- \_\_c\_\_ Linear pair angles
- \_\_h\_\_ Coplanar points
- \_\_f\_\_ Congruent (symbol)
- \_\_a\_\_ Skew lines
- \_\_d\_\_ Complementary angles
- \_\_b\_\_ Segment bisector
- \_\_e\_\_ Angle bisector



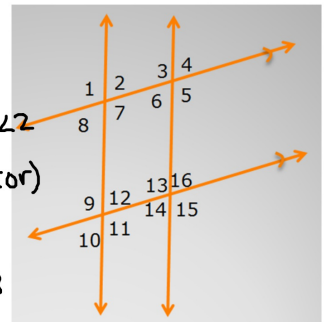
### CONGRUENT ANGLES:

- vertical angles  
They share the same vertex  
ex.  $\angle 4 + \angle 6$ ,  $\angle 1 + \angle 7$
- corresponding angles  
lie on the same side of the transversal  $r$  and in corresponding positions  
ex.  $\angle 2 + \angle 12$ ,  $\angle 6 + \angle 14$
- alternate interior angles  
are nonadjacent interior angles that lie on opposite sides of the transversal  
ex.  $\angle 6 + \angle 16$ ,  $\angle 7 + \angle 9$
- alternate exterior angles  
two exterior angles on opposite sides of a transversal which lie on different parallel lines  
ex.  $\angle 3 + \angle 15$ ,  $\angle 10 + \angle 2$



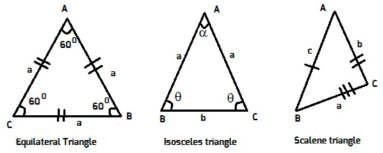
### SUPPLEMENTARY Angles:

- linear pair  
Two angles that are adjacent and supplementary  
ex.  $\angle 2 + \angle 7$ ,  $\angle 6 + \angle 5$ ,  $\angle 1 + \angle 2$
- consecutive interior  
(also called same side interior)  
The pair of angles on one side of the transversal but inside the two lines  
ex.  $\angle 7 + \angle 12$ ,  $\angle 12 + \angle 13$
- consecutive exterior  
The pair of angles on opposite sides of the transversal but outside the two lines  
ex.  $\angle 5 + \angle 16$

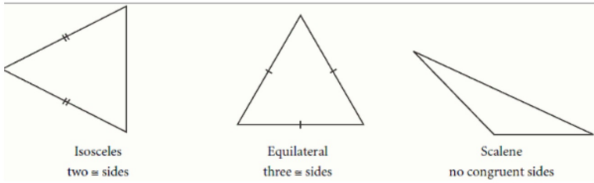


## Triangles

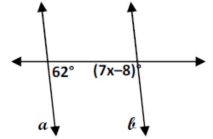
Draw and label the 3 types of triangles classified by ANGLES



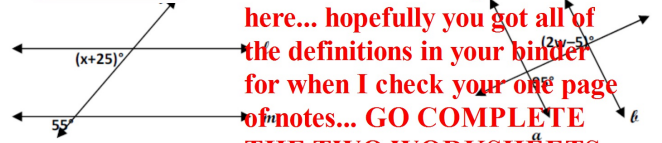
Draw and label the 3 types of triangles classified by SIDES.



2.  $a \parallel b$ . Find  $y$

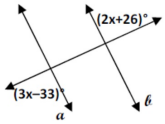


4.  $a \parallel b$ . Find  $w$ .

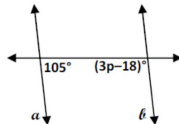


**You are done taking notes here... hopefully you got all of the definitions in your binder for when I check your one page of notes... GO COMPLETE THE TWO WORKSHEETS DUE TUESDAY :)**

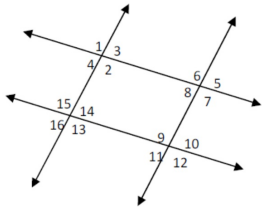
5.  $a \parallel b$ . Find  $x$ .



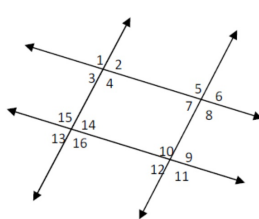
6.  $a \parallel b$ . Find  $p$ .



7. If  $m\angle 2 = 23^\circ$ , find  $m\angle 12$ .



8. If  $m\angle 1 = 122^\circ$ , find  $m\angle 10$ .



Please fill the blank in with always, sometimes, or never.

10. Vertical angles are \_\_\_\_\_ congruent.

11. Corresponding angles are \_\_\_\_\_ congruent.

**Closure:**

**What are the types of triangles by side and angle?**

