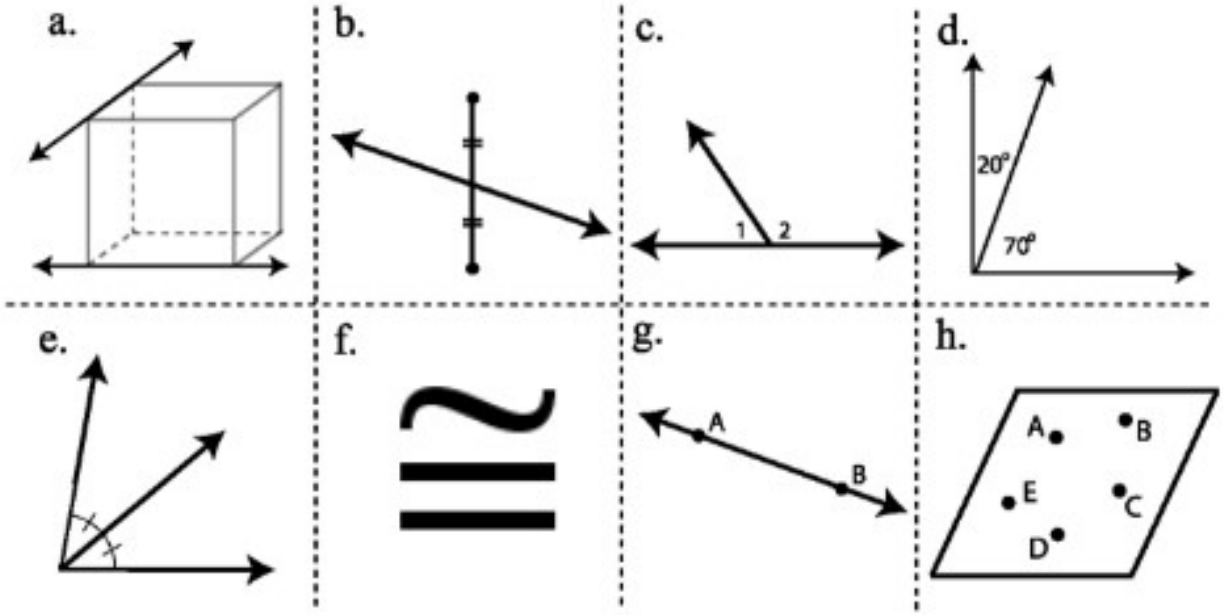
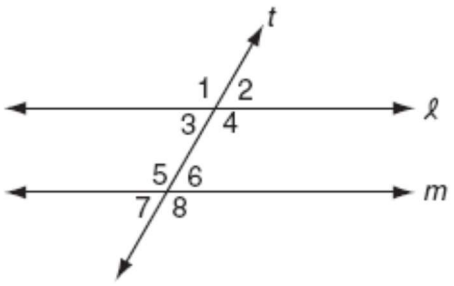
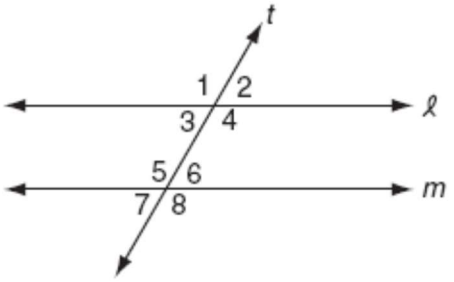
6.1 Intro to Geometric Properties

OBJ: examine the properties of lines and angles.

Directions: Match each of the following pictures with the vocabulary listed below.



1. _____ Line AB
2. _____ Linear Pair Angles
3. _____ Coplanar points
4. _____ Congruent (Symbol)
5. _____ Skew lines
6. _____ Complementary Angles
7. _____ Segment bisector
8. _____Angle bisector

Important Vocabulary		Picture
Vertical Angles:		
Corresponding Angles:		
Alternate Interior Angles:		
Alternate Exterior Angles:		
Linear Pair:		
Consecutive Interior Angles:		
Consecutive Exterior Angles:		

Directions: Draw and label three types of triangles classified by angles.

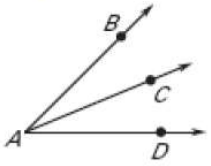
Name:			
Picture:			
Definition:			

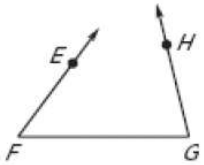
Directions: Draw and label three types of triangles classified by sides.

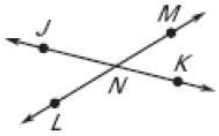
Name:			
Picture:			
Definition:			

Are the indicated angles *adjacent*?

1._____ $\angle BAC$ and $\angle CAD$ 2._____ $\angle EFG$ and $\angle HGF$ 3._____ $\angle JNM$ and $\angle LNK$







∠ 1 and ∠ 2 are *complementary* angles. Given the measure of ∠1, find $m\angle 2$.

6. $m\angle 1=52°$, $m\angle 2$ = _____ 7. $m\angle 1=76°$, $m\angle 2$ = _____ 8. $m\angle 1=19°$, $m\angle 2$ = _____

∠ 1 and ∠ 2 are *supplementary* angles. Given the measure of ∠1, find $m\angle 2$.

9. $m\angle 1=52°$, $m\angle 2$ = _____ 10. $m\angle 1=76°$, $m\angle 2$ = _____ 11. $m\angle 1=19°$, $m\angle 2$ = _____

Stair Railing: A stair railing is designed as shown in the figure.
Use the angles identified in the figure to **name *two* pairs** of the indicated type of angle pair.

25. Complementary angles ∠___ & ∠___ ∠___ & ∠___

26. Supplementary angles ∠___ & ∠___ ∠___ & ∠___

28. Vertical angles ∠___ & ∠___ ∠___ & ∠___

29. Linear pair ∠___ & ∠___ ∠___ & ∠___

30. Adjacent angles ∠___ & ∠___ ∠___ & ∠___