

## Notes 7.1 Identify pairs of Lines and Angles

**Parallel Lines:** Are coplanar  
Do not intersect

Lines that are parallel to  $\overleftrightarrow{FG}$  are:  $\overleftrightarrow{CD}, \overleftrightarrow{EH}, \overleftrightarrow{AB}$

**Intersecting lines:** Are coplanar  
Do intersect

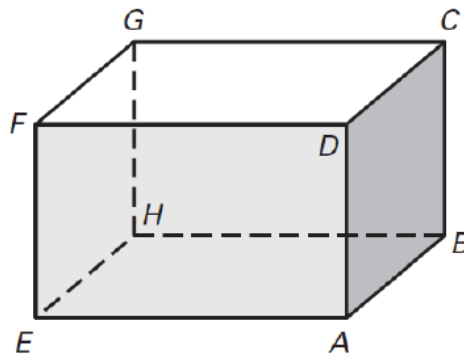
Lines that intersect to  $\overleftrightarrow{FG}$  are:  $\overleftrightarrow{CG}, \overleftrightarrow{GH}, \overleftrightarrow{DF}, \overleftrightarrow{EF}$

**Skew lines:** Are not coplanar  
Do not intersect

Lines that are skew to  $\overleftrightarrow{FG}$  are:  $\overleftrightarrow{BH}, \overleftrightarrow{EA}, \overleftrightarrow{AD}, \overleftrightarrow{CB}$

**Parallel Planes:** Opposite sides of box  
Do not intersect

Plane that is parallel to plane FGH is: plane DCB



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**Transversal:** A line that crosses two other lines

**Corresponding Angles:** Same side of transversal  
Not adjacent  
One interior, one exterior

Paired corresponding angles are:  $\angle 1$  and  $\angle 5$   
 $\angle 2$  and  $\angle 6$   
 $\angle 3$  and  $\angle 7$   
 $\angle 4$  and  $\angle 8$

**Alternate Exterior Angles:** opposite sides of transversal  
Not adjacent  
Both exterior

Paired alternate exterior angles are:  $\angle 1$  and  $\angle 8$   
 $\angle 2$  and  $\angle 7$

**Alternate Interior Angles:** opposite sides of transversal  
Not adjacent  
Both interior

Paired alternate interior angles are:  $\angle 3$  and  $\angle 6$   
 $\angle 4$  and  $\angle 5$

**Same-Side Interior Angles:** Same side of transversal  
Or  
**Consecutive Interior Angles:** Both interior

Paired same-side interior angles are:  $\angle 3$  and  $\angle 5$   
or  
 $\angle 4$  and  $\angle 6$   
Paired consecutive interior angles are:

