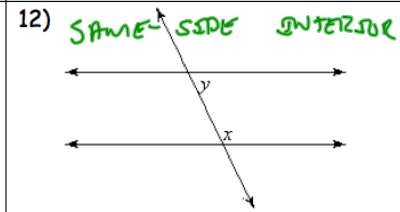
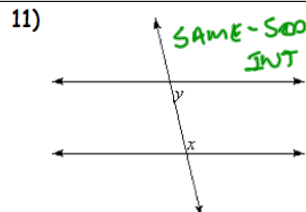
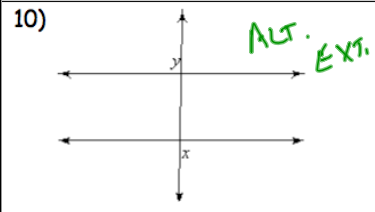
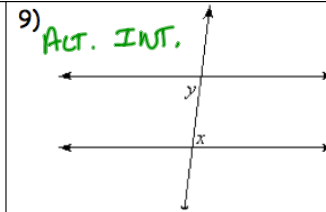
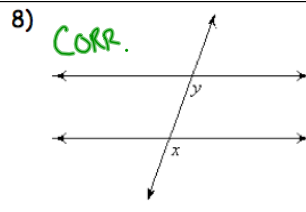
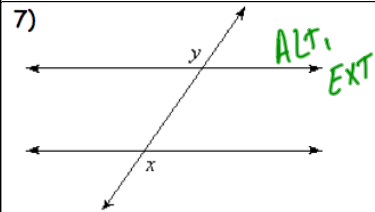
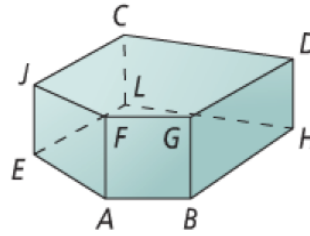


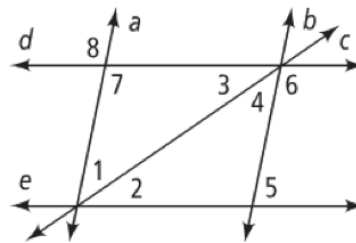
### 3.1 Practice Solutions

- 1) a pair of parallel planes  
PLANE JCDGF and PLANE ELHBA
- 2) all lines that are parallel to  $\overline{AB}$   
 $\overline{FG}$
- 3) all lines that are parallel to  $\overline{DH}$   
 $\overline{CB}, \overline{FA}, \overline{JE}, \overline{CL}$
- 4) two lines that are skew to  $\overline{EJ}$   
 $\overline{CB}, \overline{FA}, \overline{GD}, \overline{BH}, \overline{AB}, \overline{FG}$
- 5) all lines that are parallel to plane JFAE  
NONE
- 6) a plane parallel to  $\overline{LH}$  PLANE JCDGF



Directions: Identify all pairs of each type of angles in the diagram. Name the two lines and the transversal that form each pair.

- 13) corresponding angles  
 $\angle 7$  and  $\angle 6$   $\parallel b \rightarrow d$  is transversal
- 14) alternate interior angles  
 $\angle 3$  and  $\angle 5$   $d \parallel e \rightarrow b$  is transversal
- 15) alternate exterior angles  
 $\angle 8$  and  $\angle 6$   $\parallel b \rightarrow d$  is transversal
- 16) same-side interior angles  
 $\angle 7$  and  $\angle 2$   $d \parallel e \rightarrow a$  is transversal



Directions: Determine whether each statement is always, sometimes or never true.

- |  |  |
|--|--|
| 17) Two parallel lines are coplanar<br><p style="text-align: center; margin-left: 100px;"><b>ALWAYS</b></p>                  | 18) Two skew lines are coplanar<br><p style="text-align: center; margin-left: 100px;"><b>NEVER</b></p>                                     |
| 19) Two planes that do not intersect are parallel<br><p style="text-align: center; margin-left: 100px;"><b>ALWAYS</b></p>    | 20) Two lines in intersecting planes are skew<br><p style="text-align: center; margin-left: 100px;"><b>SOMETIMES</b></p>                   |
| 21) A line and a plane that do not intersect are skew<br><p style="text-align: center; margin-left: 100px;"><b>NEVER</b></p> | 22) Alternate interior angles are on the same side of a transversal<br><p style="text-align: center; margin-left: 100px;"><b>NEVER</b></p> |