Vocabulary Sheet for Lesson 3-1: Definitions and Theorems
Definitions
Definition: Parallel Lines - parallel lines (symbol $\|$
ore two or more coplanar lines that do not
intersect.
Definition: Skew lines - skew lines are
noncoplanar lines that do not intersect
Theorem 3-1: If two parallel planes are cut by a
that do not intersect
third plane, then the lines of intersection are
parallel
Definition: Transversal - a line that intersects
two or more coplanar lines in different points.
Example 1

| Example 2 <br> $\square$ Classify each pair of lines as intersecting, parallel, or skew (the hidden point is F) <br> A) Line AE and line DH <br> B) Line AB and line BC <br> C) Line AE and line CG <br> D) Line DH and line AB | A) parallel <br> B) intersecting <br> C) parallel <br> D) Skew |
| :---: | :---: |
| Definition: Alternate Interior Angles - two nonadjacent interior angles on opposite sides of the transversal |  |
| Definition: Same-side Interior Angles - two interior angles on the same side of the transversal |  |
| Definition: Corresponding Angles - two angles in corresponding positions relative to the two lines |  |
| Example 3 <br> Classify each pair of angles if possible <br> ) $<7$ and $<11$ <br> 2) $<4$ and $<10$ <br> 3) $<2$ and $<3$ | i) S.S.I <br> 2) none <br> 3) S.S.I. |
| Example 4 <br> Classify each pair of angles if possible $\begin{aligned} & \text { 4) }<14 \text { and }<16 \\ & \text { S) }<3 \text { and }<6 \\ & \text { b) }<2 \text { and }<10 \end{aligned}$  | 4) Cosc. <br> 5) A.I. <br> 6) corr. |

