Use Parallel Lines and Transversals

Guided Notes: STUDENT EDITION

	PARALLEL	PERPENDICULAR	SKEW
DEFINITION	LINES-	LINES-	LINES-
EXAMPLE	A D E F H G	N M P	D E E H B H
DEFINITION	PLANES-	PLANES-	
EXAMPLE	A D F F H G	J L N M	

Think of each segment in the diagram as part of a line. Which line(s) or plane(s) appear to fit the description?

- 1. Line(s) parallel to AB
- 2. Line(s) perpendicular to \overrightarrow{BF}
- 3. Line(s) skew to \overrightarrow{CD} and containing point E
- 4. Plane(s) perpendicular to plane ABE
- 5. Plane(s) parallel to plane ABC



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Туре:	Location:	Picture:
Theorem: If 2 parallel lines	are cut by a transversal, then are	
Туре:	Location:	Picture:
Theorem: If 2 parallel lines		
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Classify each angle pair as corresponding, alternate interior, alternate exterior, consecutive interior, or consecutive exterior.



Discovery: Lines 1 and m are parallel. Note: Parallel lines are distinguished by a matching set of arrows on the lines that are parallel. Find the measure of the missing angles by using transparent paper. Then, let's go back and fill in the theorems.

Key Question: If $x = 115^\circ$, is it possible for y to equal 115° ?



For t he following diagrams, state the type of angles that are given, state their relationship, and then find x.



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Find the missing variables.



On Your Own: For t he following diagrams, state the type of angles that are given, state their relationship, and then find x.

