Section Overview

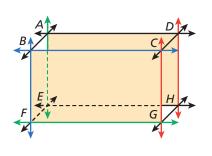


Lesson 3-1

Exploring Lines and Angles

Basic postulates about lines and planes will provide essential concepts for the deductive development of geometry.

Definition	Examples
Parallel lines lie in the same plane and do not intersect.	ĊĠ ∥ ĦF
Perpendicular lines intersect at right angles.	$\overrightarrow{BC} \perp \overrightarrow{BF}$
Skew lines are not coplanar, are not parallel, and do not intersect.	\overrightarrow{FG} and \overrightarrow{AE} are skew.
Parallel planes do not intersect.	plane BCG plane ADH

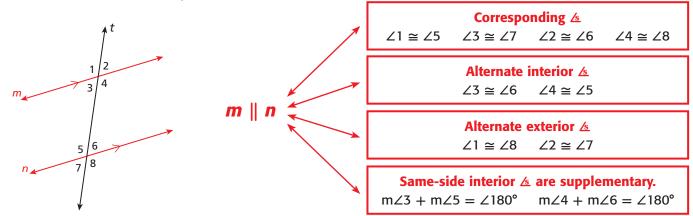


Lessons 3-2, 3-3

Exploring Parallel Lines and Transversals

Students will use properties of parallel lines and related angles to justify theorems about triangle congruence and similarity.

Given: two lines *m* and *n* cut by a transversal *t*



Exploring Perpendicular Lines

Lesson 3-4

Students will apply their knowledge of perpendicular lines when they study properties of polygons, quadrilaterals, solids, and circles.

