Section Overview

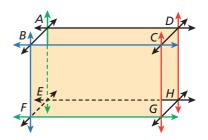


Geometric Relationships

Lesson 8-2

Why?) Lines and planes are the building blocks of geometry.

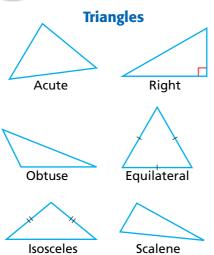
Definition	Examples
Parallel lines lie in the same plane and do not intersect.	CG BF
Perpendicular lines intersect at right angles.	$\overrightarrow{BC} \perp \overrightarrow{BF}$
Skew lines lie in different planes, are not parallel, and do not intersect.	\overrightarrow{FG} and \overrightarrow{AE} are skew.
Parallel planes do not intersect.	plane <i>BCG</i> plane <i>ADH</i>
Perpendicular planes are planes that intersect to form right angles.	plane $BCG \perp$ plane CDH

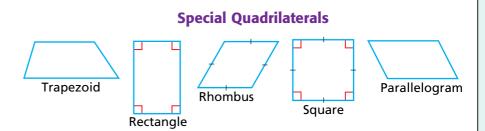


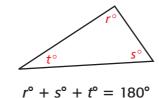
Triangles and Coordinate Geometry

Lessons 8-4, 8-5

Why? Polygons are all around us.

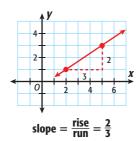


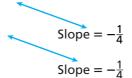




The interior angle measures of a triangle add to 180°.

Any two vertical lines are parallel. Vertical and horizontal lines are perpendicular. These are exceptions for the more general definitions below.





Perpendicular Lines product of slopes = -1

