Parallel Lines and Transversals



Identify perpendicular planes, parallel planes, a line parallel to a plane, skew lines, and a line perpendicular to a plane

Apply properties and theorems about angles associated with parallel and perpendicular lines to solve problems

What is the difference between parallel and skew lines?

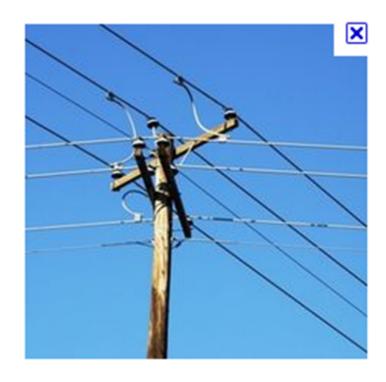
Parallel

Lines that are in the same plane Lines that never intersect

Skew

Lines that are not in the same plane
Lines that never intersect





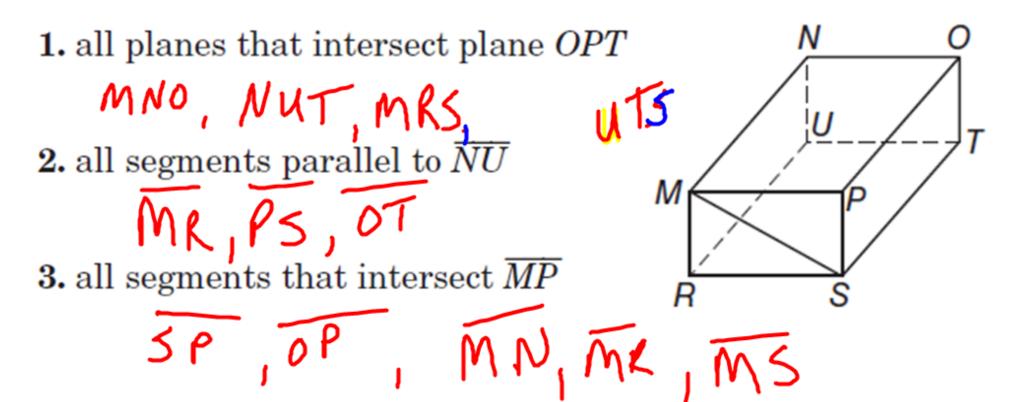
Symbols

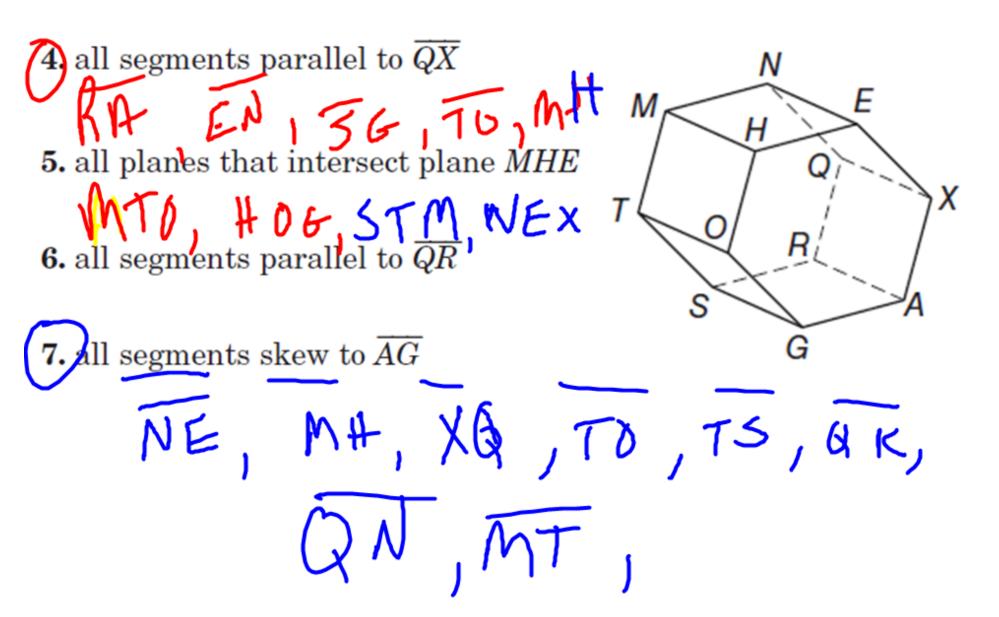
Parallel

Not Parallel

Symbol		X
Example	TR // IM	lXn

m//ng
K
m
M
n

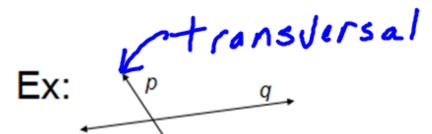


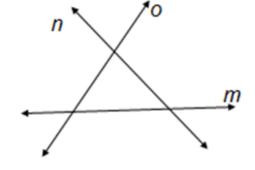


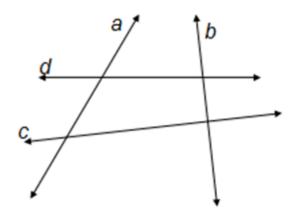
What is a Transversal?

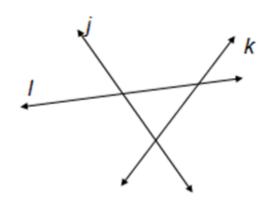


A line that cuts two or more lines at two different points



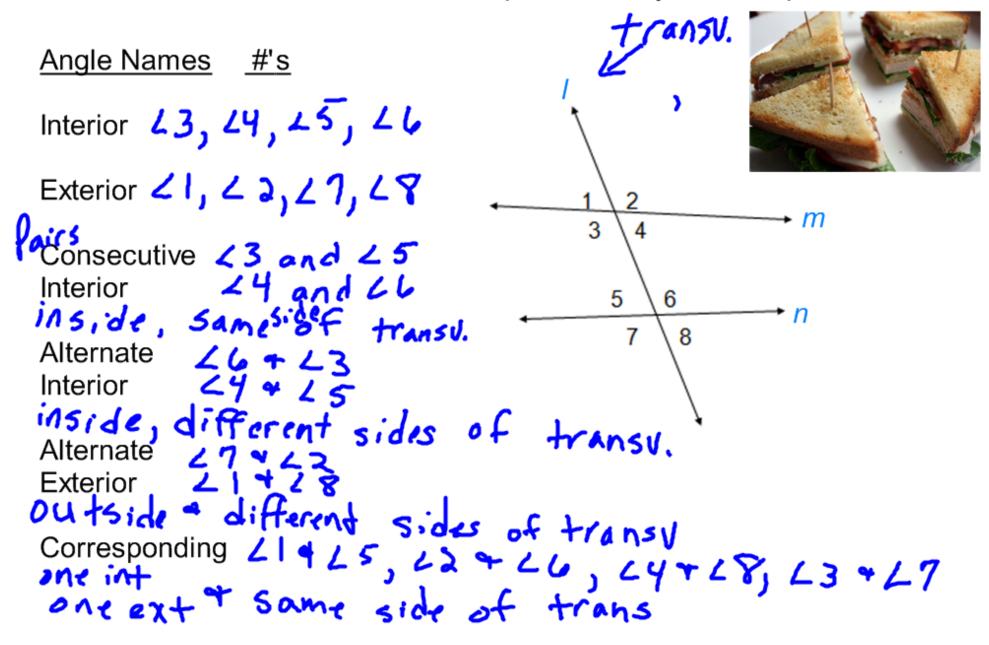






Special Angles formed by a transversal

Imagine a sandwich: lines *m* and *n* are represented by the bread line / is represented by the toothpick



Classify the relationship between each pair of angles as alternate interior, Also identify the transversal connecting them

Also identify the transversal connecting them

