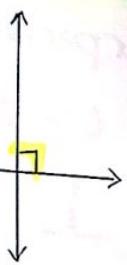


3.1 Pairs of Lines and Angles

Perpendicular Lines

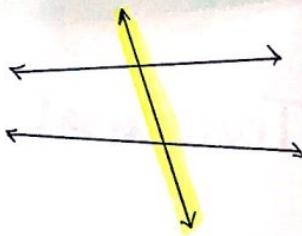
Two lines that intersect to form a right angle

L Postulate: If there is a line and a point not on the line there is exactly one line through the point \perp to the given line



Transversal

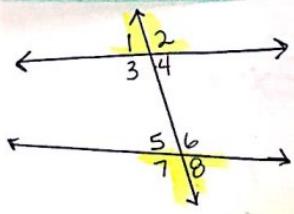
A line that intersects two or more lines in a plane at different points



Exterior Angles

Lie outside the lines

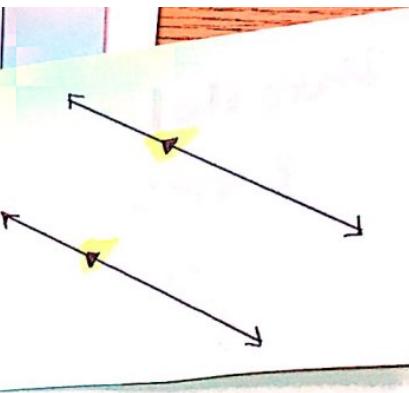
$\angle 1, \angle 2, \angle 7, \angle 8$



Parallel Lines

Lines that do not intersect and are coplanar.

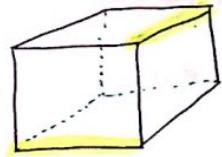
II Postulate: If there is a line and a point not on the line, then there is exactly one line through the point \parallel to the given line



Skew Lines

Lines that do not intersect and are not coplanar.

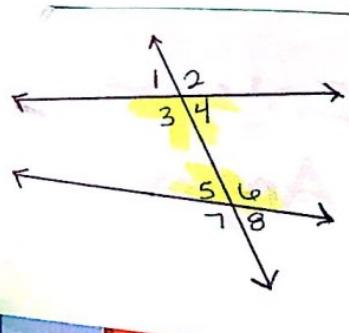
Might look \perp , but are not because they are on two different planes



Interior Angles

Lie between the two lines

$\angle 3, \angle 4, \angle 5, \angle 6$



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3.1 Pairs of Lines and Angles

Perpendicular
Lines



Parallel
Lines

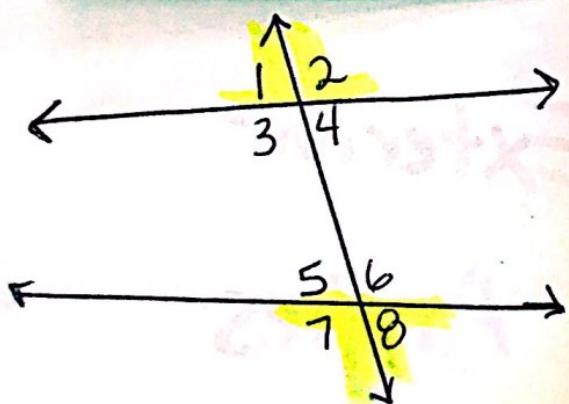
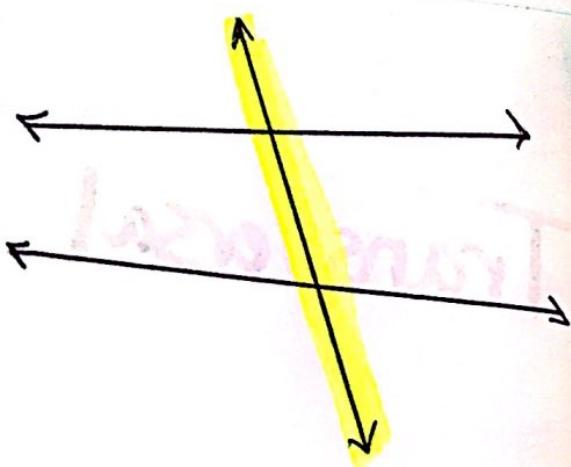
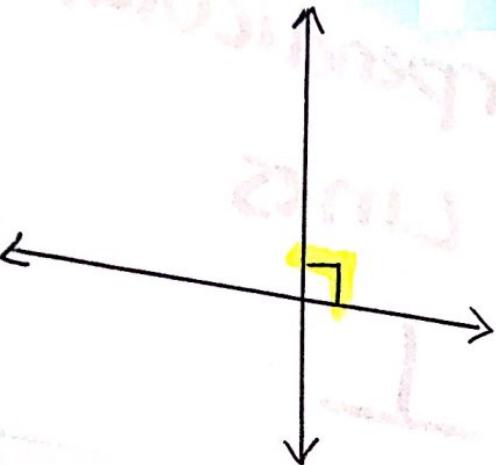


Transversal

Skew
Lines

Exterior
Angles

Interior
Angles



3.1 Tails up

Perpendicular Lines

Two lines that intersect to form a right angle

L Postulate: If there is a line and a point not on the line there is exactly one line through the point L to the given line

Transversal

A line that intersects two or more lines in a plane at different points.

Exterior Angles

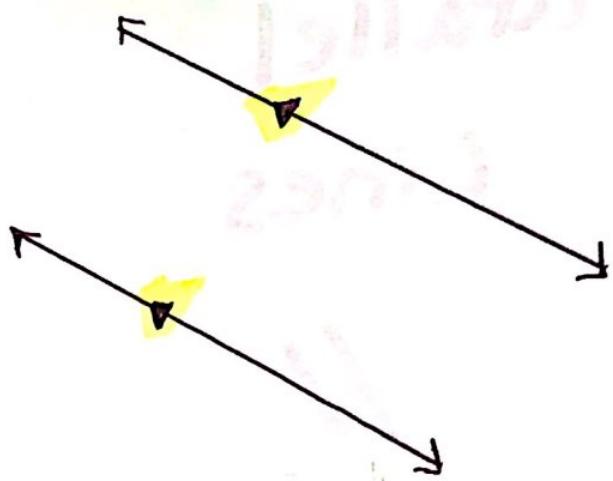
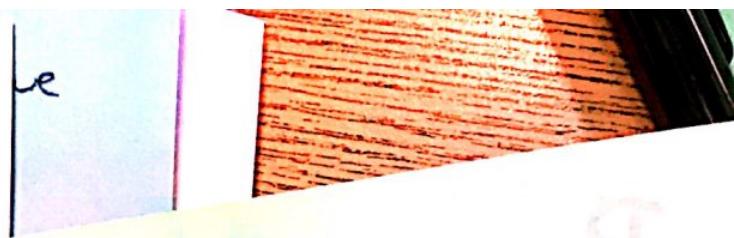
Lie outside the lines

$\angle 1, \angle 2, \angle 7, \angle 8$

Lines and Angles

Parallel Lines

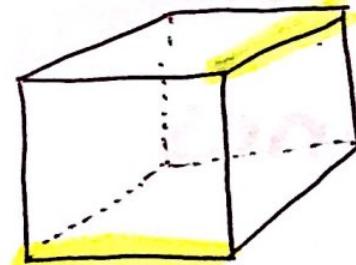
Lines that do not intersect and are coplanar.



Postulate: If there is a line and a point not on the line, then there is exactly one line through the point P to the given line

Skew Lines

- Lines that do not intersect and are not coplanar.
- Might look \perp , but are not because they are on two different planes



Interior Angles

Lie between the two lines

$\angle 3, \angle 4, \angle 5, \angle 6$

