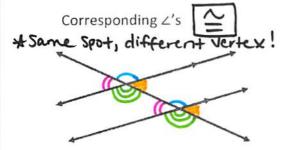
## 2.2 Parallel Lines and Transversals Guided Notes

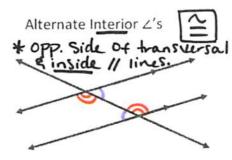
Two or more lines are **parallel** if and only if they are in the same plane and they do not intersect.

A <u>transversal</u> is a line intersecting two or more coplanar lines.

Angle Relationships formed with || Lines:

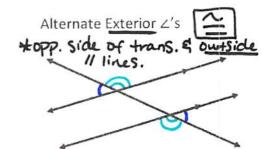


Corr. ∠'s Postulate: If 2 || lines are cut by a transversal, then

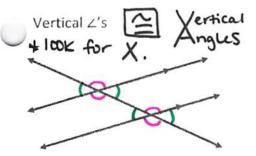


Alt. Int. ∠'s Theorem:

If 2 || lines are cut by a transversal,
then

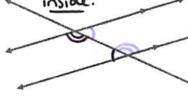


Alt. Ext. ∠'s Theorem:
If 2 || lines are cut by a transversal,
then



Vert. L's Theorem:

Same Side Interior Z's Supplementary + same side of trans. (add to equal 1PU) inside.



Same Side. Int. ∠'s Theorem:

If 2 || lines are cut by a transversal,
then

tangles next to each other that make a straight line. (supp).

x=16.8

m L = 146.4

Problem Solving with Angles:

In problems 1-2, assume  $a \parallel b$ . Find the value of x. Then, find the measure of each angle.

