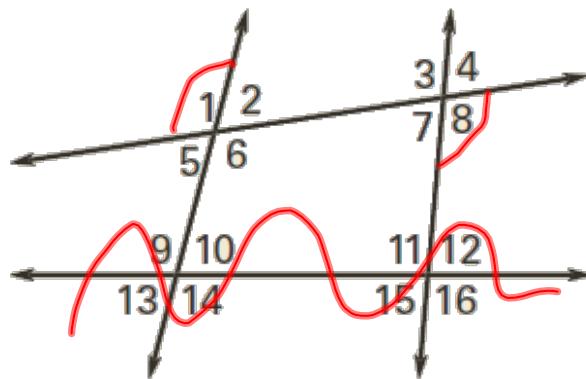


Warm Up

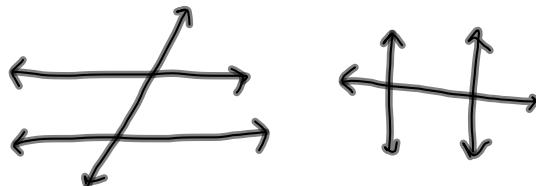
Identify the types of angles.

1. $\angle 5$ and $\angle 7$
corresponding



2. $\angle 3$ and $\angle 6$
alt. interior

3. $\angle 1$ and $\angle 8$
alt. exterior



3-2 Parallel Lines and Transversals

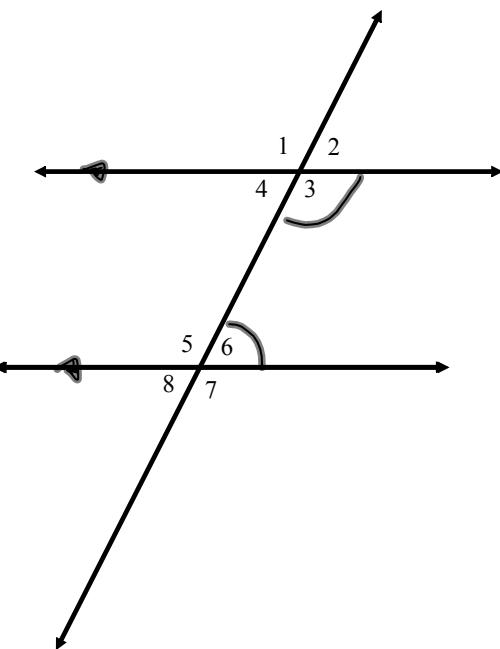
Look up postulate #15 and theorems 3.1 - 3.3

corr. L's Post.

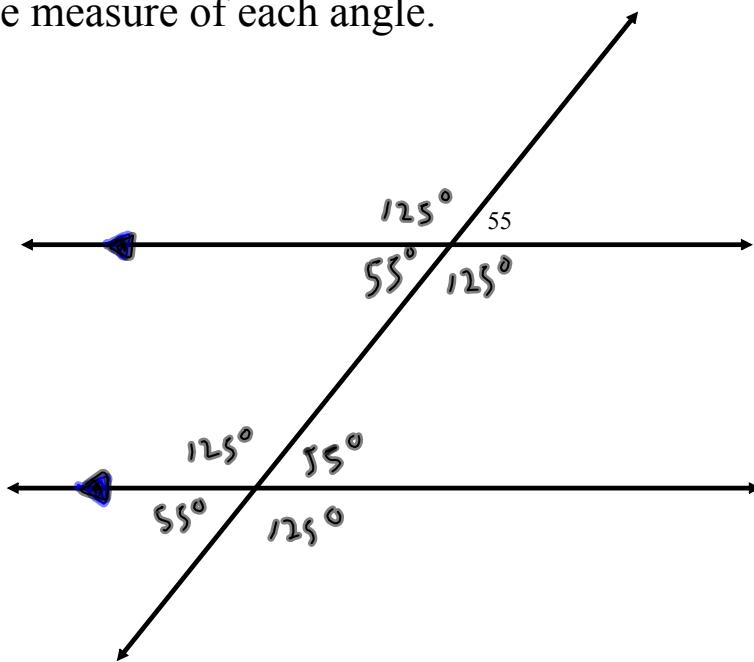
Alt. int. L's Thm.

Alt. ext. L's Thm.

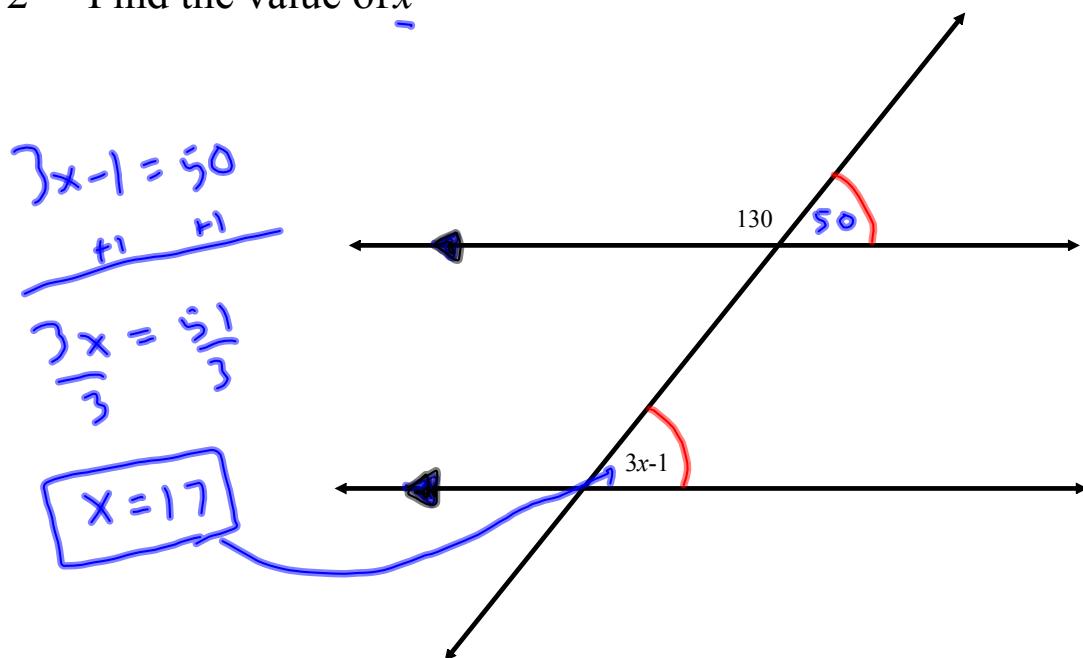
cons. int. L's Thm.
 - supplementary



Ex 1 Find the measure of each angle.



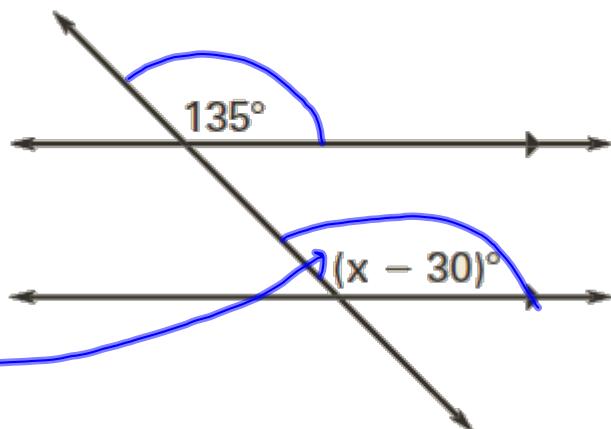
Ex 2 Find the value of x



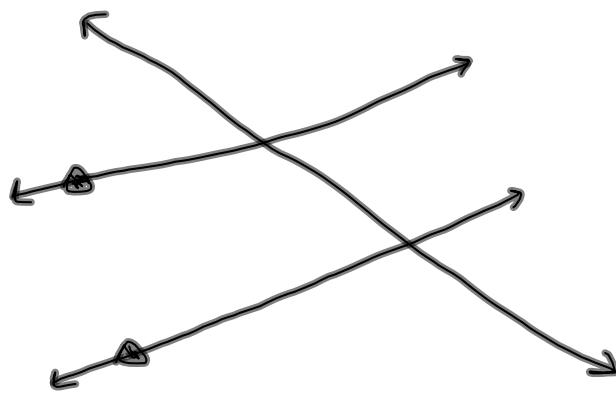
Ex. 3 Find the value of \underline{x} .

$$x - 30 = 135$$

$$x = 165$$

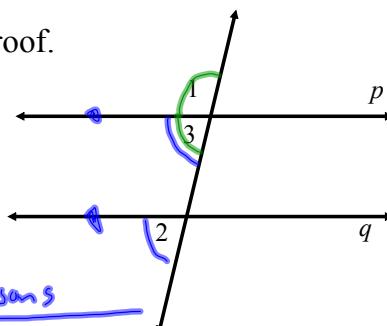


Ex. 4 Make up a problem similar to examples 2 and 3. Trade your problem with a student around you, and solve each other's problem.



Ex. 5 Write a two column proof.

Given: p is parallel to q
 Prove: angles 1 and 2 are supplementary



Statements	Reasons
$p \parallel q$	given
$\angle 2 \cong \angle 3$	corr. L's post.
$m\angle 2 = m\angle 3$	def. of \cong
$m\angle 1 + m\angle 3 = 180^\circ$	linear post. post.
$m\angle 1 + m\angle 2 = 180^\circ$	substitution
$\angle 1 + \angle 2$ are supplementary	Def. of supp.