1.2 Parallel Line Postulates

Tuesday, August 14, 2018 2:13 PM

You may need to refer back to the 1.0 notes for the names of the angles.

When 2 Parallel Lines are intersected by a transversal then the:

Alternate Interior Angles are ≅ Z

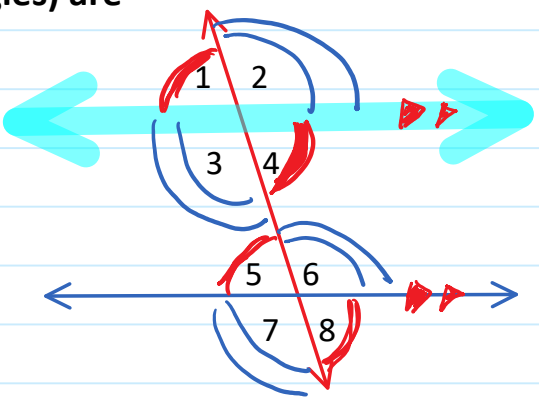
Alternate Exterior Angles are ≅

Corresponding Angles are ≅ F

And the:

Same Side Interior Angles (Consecutive Interior Angles) are supplementary

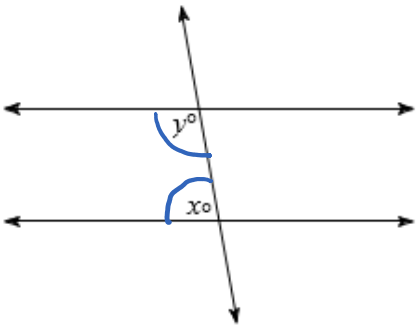
Same Side Exterior Angles are supplementary



The **Biggest decision** you will have to make is how they are related. They will either be **supplementary** or ≅

[1-6] Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, vertical, or adjacent.

5. Consecutive Int. (Same-Side Int)



[14-17] Find the value of x that makes line *u* and *v* parallel.

14.

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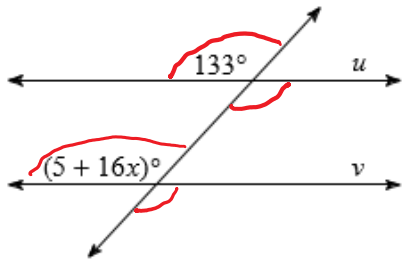
14.



$5 + 16x = 133$

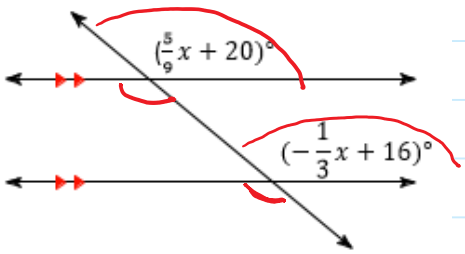
$-5 \quad -5$

$\frac{16x}{16} = \frac{128}{16}$

$x = 8$

[9-12] Given the lines are parallel, find the value of x.

11.



$\frac{5}{9}x + 20 = -\frac{1}{3}x + 16$

$+\frac{1}{3}x \quad +\frac{1}{3}x$

$\frac{8}{9}x + 20 = 16$

$-20 \quad -20$

$\frac{9}{8} \cdot \frac{8}{9}x = -4 \cdot \frac{9}{8}$

$x = -9/2$