

Consecutive angles on a line add to 180° .

$\angle 1 + \angle 2 + \angle 3 + \angle 4 = 180^\circ$

adjacent \angle 's share a side

Jan 9-8:53 AM

Linear pair form Supplementary angles that add to 180° .

$\angle 1 + \angle 2 = 180^\circ$

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Supplementary angles add to 180° .

$\angle 1 + \angle 2 = 180^\circ$

$\angle 1 + \angle 2 + \angle 3 = 180^\circ$

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Complementary angles sum to 90° .

$\angle 1 + \angle 2 = 90^\circ$

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Angles around a point sum to 360° .

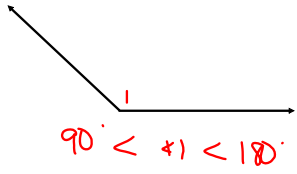
$\angle 1 + \angle 2 + \angle 3 = 360^\circ$

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Acute angles are less than 90° .

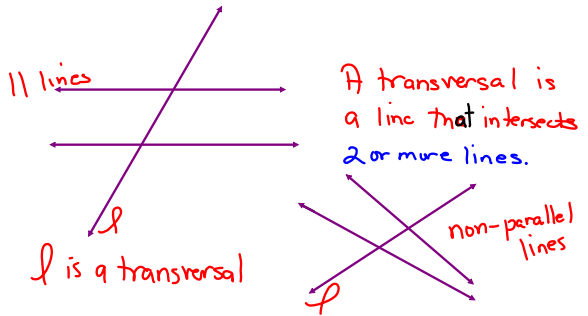
$\angle 1 < 90^\circ$

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An obtuse angle is greater than 90° but less than 180°

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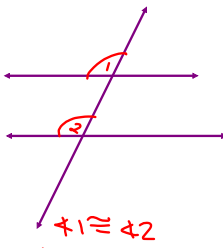
|| lines

A transversal is a line that intersects 2 or more lines.

l is a transversal

non-parallel lines

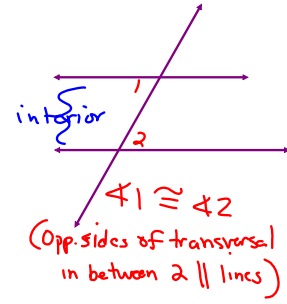
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Parallel lines cut by a transversal form congruent corresponding angles.

$\angle 1 \cong \angle 2$
(Same side of transversal, Same spot)

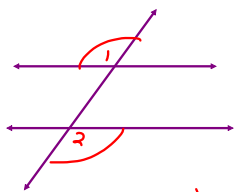
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Parallel lines cut by a transversal form congruent alternate interior angles.

$\angle 1 \cong \angle 2$
(Opp. sides of transversal in between 2 || lines)

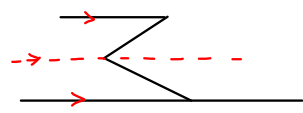
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Parallel lines cut by a transversal form congruent alternate exterior angles.

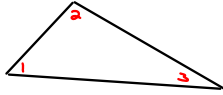
(Opp. sides of transversal, outside the 2 || lines)

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An extra line drawn to be able to find angle measures

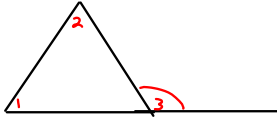
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Angles in a triangle sum to 180° .

$$\angle 1 + \angle 2 + \angle 3 = 180^\circ$$

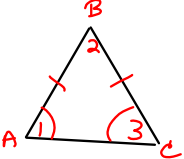
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The exterior angle of a triangle is equal to the sum of the opposite interior angles.

$$\angle 3 = \angle 1 + \angle 2$$

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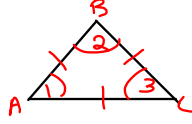


An isosceles has two congruent sides and congruent base angles.

$$AB \cong BC$$

$$\angle 1 \cong \angle 3$$

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An equilateral triangle has 3 congruent sides and 3 congruent angles.

$$\angle 1 \cong \angle 2 \cong \angle 3$$

$$AB \cong BC \cong AC$$

*all \angle 's = 60°

Jan 9-9:25 AM