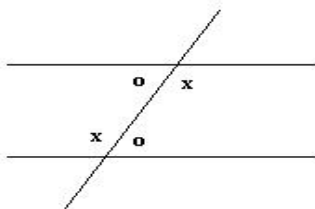


Geometry – Facts

“Fact”: A straight angle measures 180°



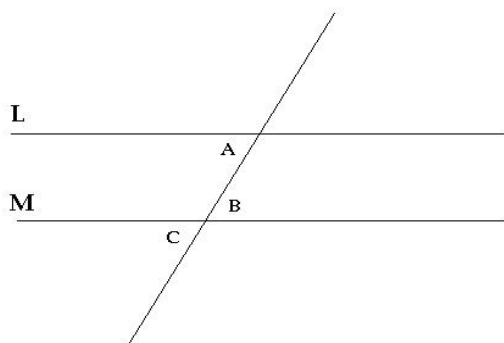
“Fact”: Alternate angles are equal in measure when formed by two parallel lines intersecting a third line.



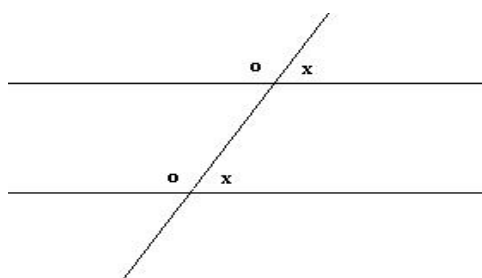
“Fact”: In the diagram below:

(a) If $|\angle A| = |\angle B|$ then line L \parallel line M

(b) If $|\angle A| = |\angle C|$ then line L \parallel line M



“Fact”: Corresponding angles are equal in measure when formed by two parallel lines intersecting a third line.



“Fact”: Two triangles are **congruent** (IDENTICAL) if they satisfy any one of the following four conditions:

- Three sides in one equal in measure to three sides in the other (**SSS**)
- Two sides and the included angle in one equal in measure, respectively, to two sides and the included angle in the other (**SAS**)
- Two angles and a side in one equal in measure, respectively, to two angles and a corresponding side in the other (**ASA**)
- A right angle, hypotenuse and a side equal in measure, respectively, in each (**RHS**)

“Fact”: If in a triangle two sides are of unequal length, then the angles opposite these sides are unequal in measure and the larger angle is opposite the longer side.

“Fact”: Any two sides of a triangle are together greater in measure than the third side.

“Fact”: The area of any rectilinear figure is equal to the sum of the areas of any two non-overlapping rectilinear figures of which it is composed.

“Fact”: The area of a rectangle = length \times breadth.