

Created by Dani Krejci referencing: http://mrsdell.org/geometry/vocabulary.html

point

An exact location in space, usually represented by a dot.

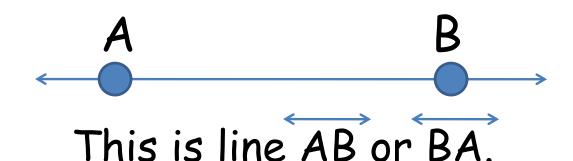
Example:

A

This is point A.

line

A straight path in a plane that goes on forever in opposite directions.



line segment

A part of a line that includes two points, called endpoints, and all of the points between them.

Example:



This is line segment AB or BA.



A part of a line, with one endpoint, that continues without end in one direction.

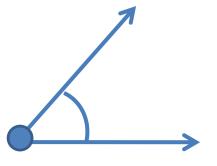
Example:

C
D

This is ray CD. It is <u>NOT</u> ray DC. You must name the point first.

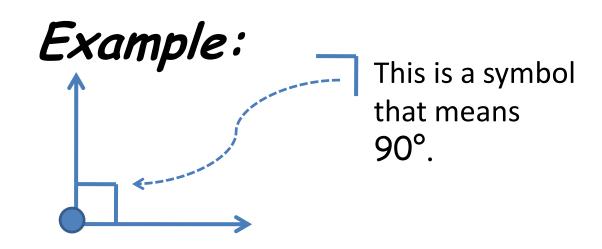
angle

A figure formed by two rays that have a common endpoint.



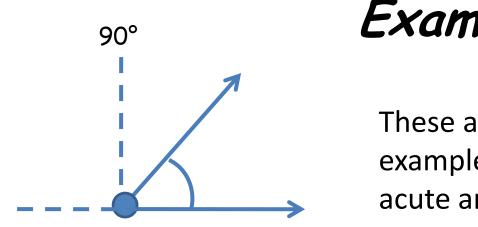
right angle

An angle formed by perpendicular lines, line segments, or rays and with a measure of 90°



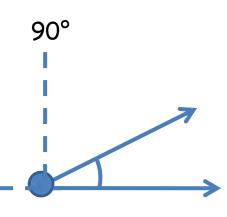
acute angle

An angle that has a measure less than a right angle (less than 90°).





These are both examples of acute angles.

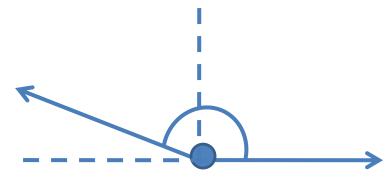


obtuse angle

An angle whose measure is greater than 90° and less than 180°.

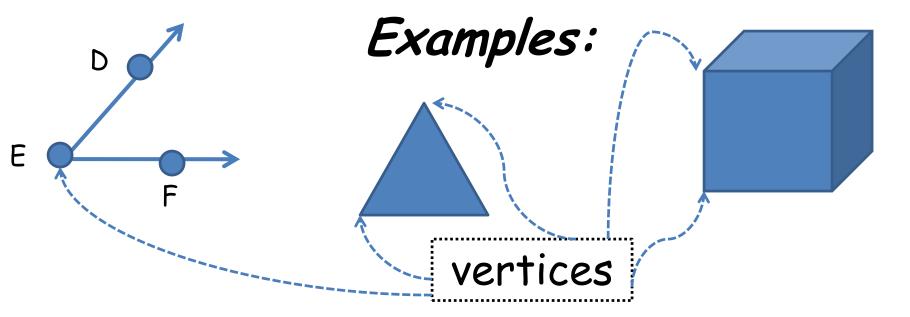
Examples:

These are both examples of obtuse angles.



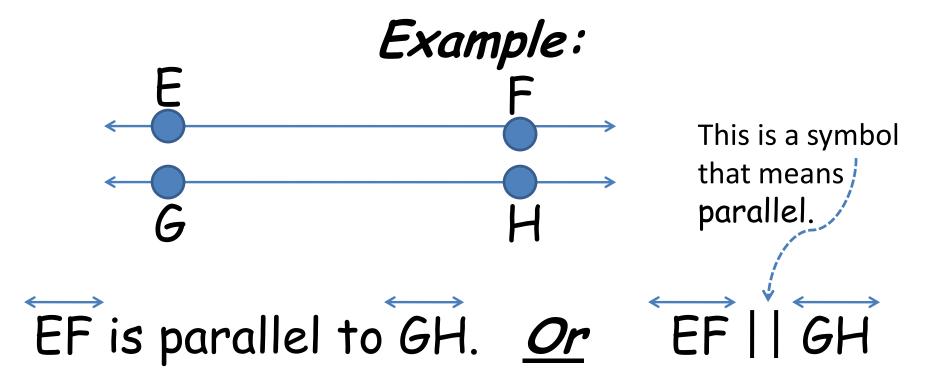
vertex

The point where rays meet; the point of intersection of any two or more side or edges; the plural is vertices



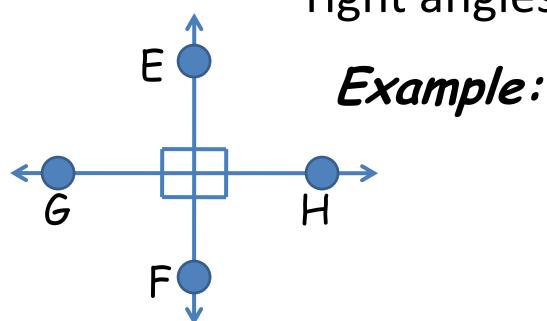
parallel line

Lines in a plane that never intersect.



perpendicular lines

Two lines that intersect to form four right angles.



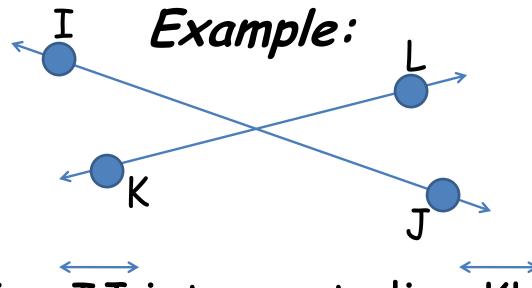
This is a symbol that means perpendicular.

EF is perpendicular to GH.

Or EF___(

intersecting lines

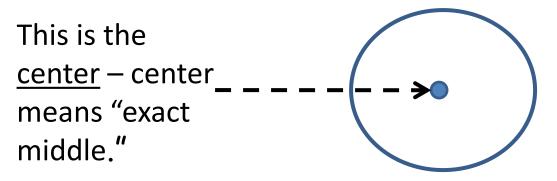
Lines that cross at exactly one point.



Line IJ intersects line KL.

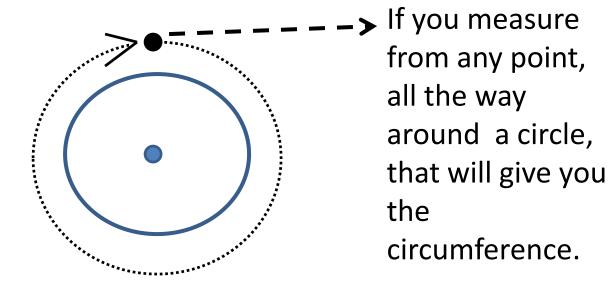
circle

A closed plane figure with all points on the figure the same distance from the center.



circumference

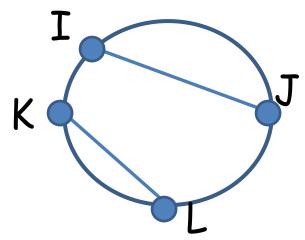
The distance around a circle.



chord

A line segment with its endpoints on a circle.

Examples:



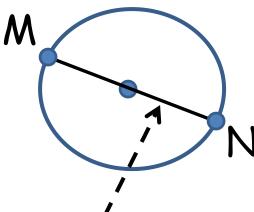
Line segments

IJ and KL are both chords.

diameter

A line segment that passes through the center of a circle and has its endpoints on the circle.

Example:

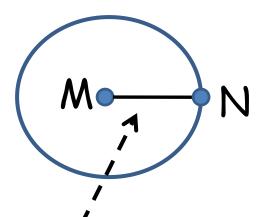


Line segment MN is the diameter.

radius

A line segment with one endpoint at the <u>center</u> of a circle and the other endpoint <u>on the circle</u>.

Example:



Line segment MN is the radiús.

triangle

A polygon with three sides.





right triangle

A triangle with one right angle (90°) .

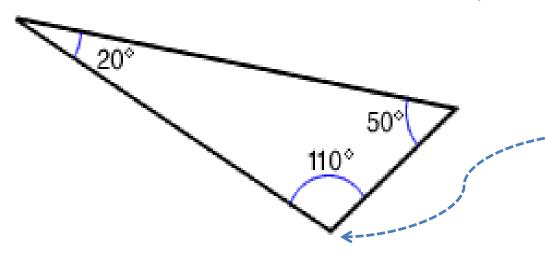
Example:

Note that this triangle has a 90° angle marked with the symbol.

obtuse triangle

A triangle that has one obtuse angle - which means an angle greater than 90°.

Example:

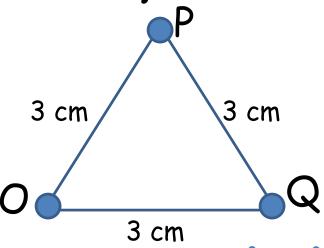


Note that this angle is 110° - which is greater than 90°. So, this is the obtuse angle that makes this an obtuse triangle.

equilateral triangle

A triangle with <u>three</u> congruent sides.

Example:

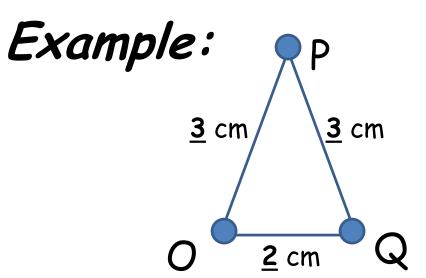


The word <u>congruent</u> means <u>equal</u> or <u>the same</u>. The sides of this triangle all measure 3 cm each.

Line segments OP, PQ, and QO are congruent.

isosceles triangle

A triangle with <u>two</u> congruent sides.



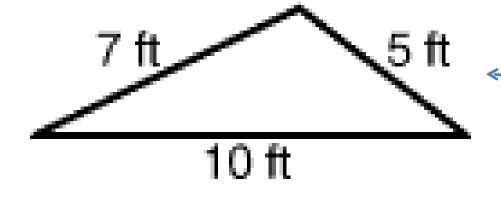
The word <u>congruent</u> means <u>equal</u> or <u>the same</u>. Only <u>two</u> sides of this triangle measure 3 cm, the other side measures 2 cm.

Line segments OP and PQ are both 3 cm = congruent. Line segment \overline{OQ} is smaller at 2 cm.

scalene triangle

A triangle with NO congruent sides.

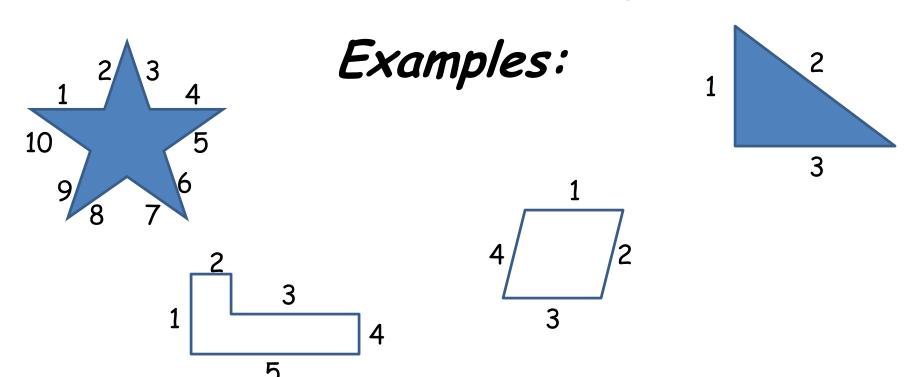
Example:



Note that each side of this triangle is a different length. If any sides are the same, it is not scalene.

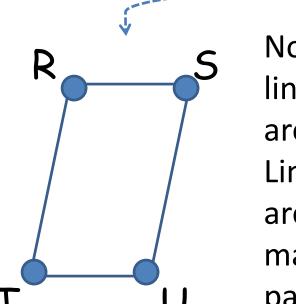
polygon

A closed plane figure formed by three or more line segments.



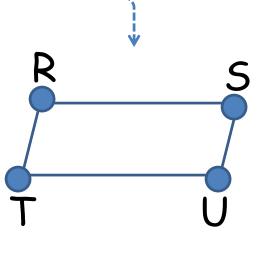
parallelogram

A quadrilateral whose opposite sides are parallel and congruent.



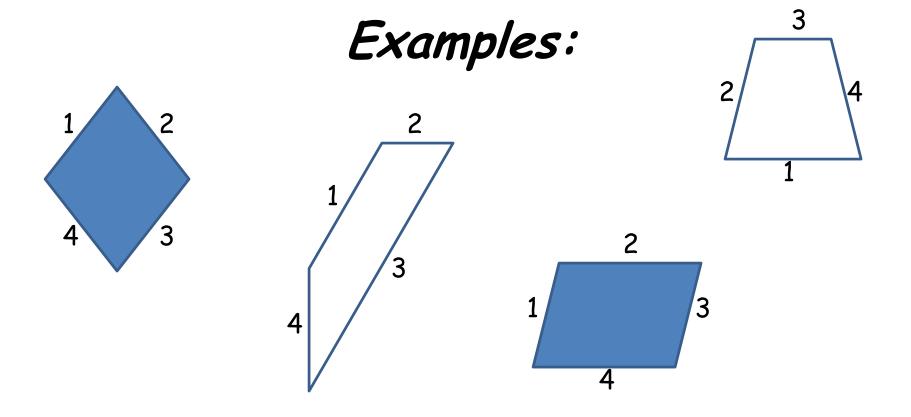
Examples:

Note that on both shapes, line segments RS and TU are congruent, or equal. Line segments RT and SU are also congruent. That makes both of these shapes parallelograms.



quadrilateral

A polygon with <u>four</u> sides



rectangle

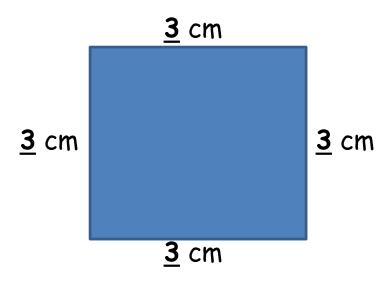
A parallelogram with four right angles.

Example:

Note that each vertex has a 90° angle marked with the symbol. Because there are four, we know this is a rectangle.

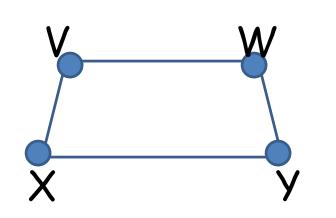
square

A rectangle with four equal sides.



trapezoid

A quadrilateral with <u>one pair</u> of <u>parallel sides</u>. _w



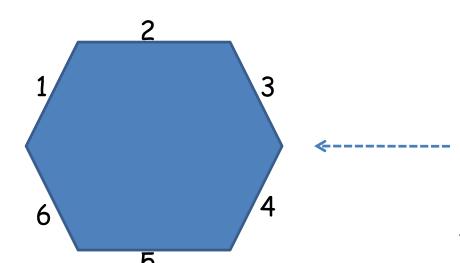
Examples:

Line segments VW and XY are parallel on both quadrilaterals, so we know that they are trapezoids.

hexagon

A polygon with six sides and six angles.

Examples:

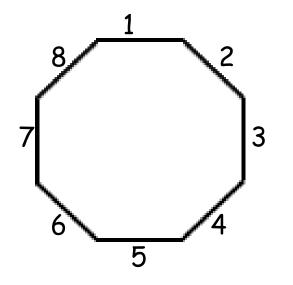


Note that there are six sides and there are also six angles. That proves that this quadrilateral is a hexagon.

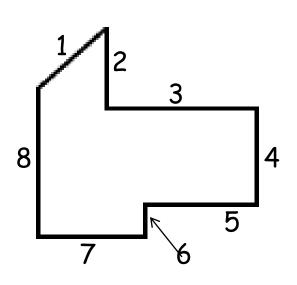
octagon

A polygon with eight sides.

Example:



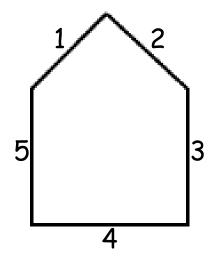
Note that even though these shapes may look different, they both have 8 sides. So, we know that they are <u>octagons</u>.



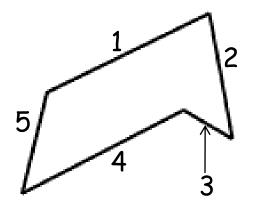
pentagon

A polygon with five sides.

Example:

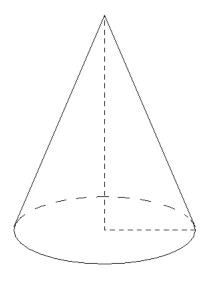


Note that even though these shapes may look different, they both have 5 sides. So, we know that they are <u>pentagons</u>.



cone

A cone is a shape that has a point at one end and is circular at the other end.



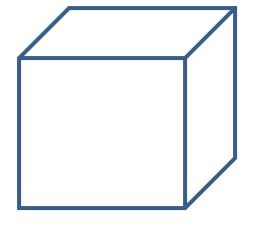
crescent

A shape that resembles a moon. It is similar to a half-circle.



cube

A three dimensional solid figure with 6 faces.



curve

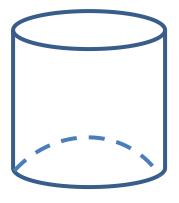
A wavy live or surface that changes direction.

Example:

Note that even though one is a curved line and one is a curved segment, these are both curves.

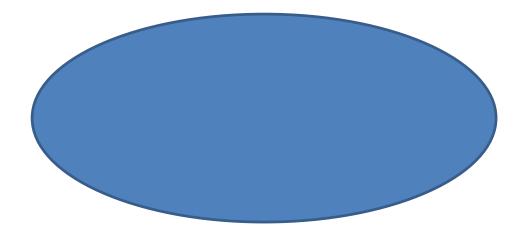
cylinder

A three dimensional solid figure with two circular ends and one face connecting them.



ellipse

A flattened circle.



crescent

An exact location in space, usually represented by a dot.



sphere

A three dimensional solid figure much like a circle. It has no ends and no points. A ball is an example.



semicircle

A shapes that resembles a half circle.



spiral

A curve that winds around itself.



zigzag

A line that turns back and forth sharply.

Example:

MMM