

point

represented by a dot and is thought of having no length, width, or thickness



symbolic

notation: ●H

line

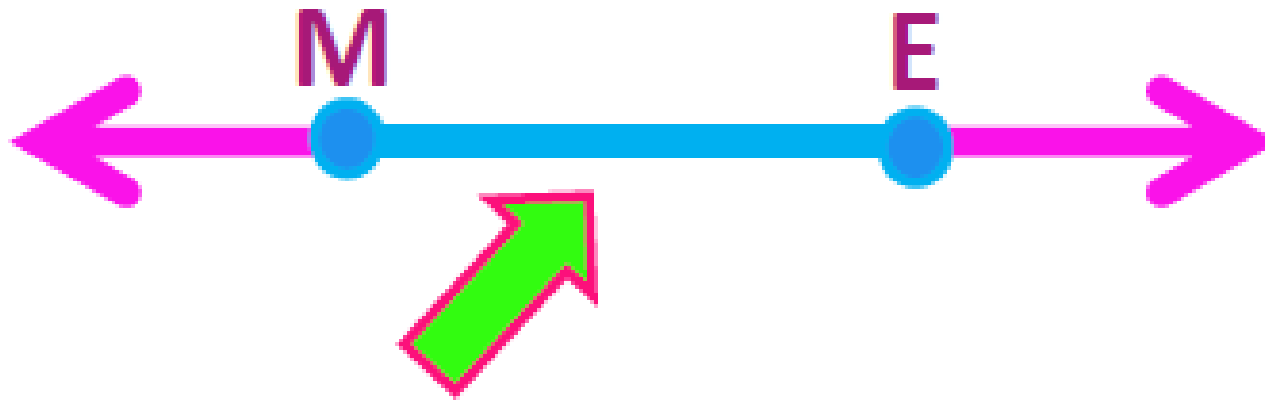
represents an infinite set of points with no thickness and its length continues in two opposite directions indefinitely



symbolic notation: \overleftrightarrow{ST}

line segment

a part of a line between two points on a line

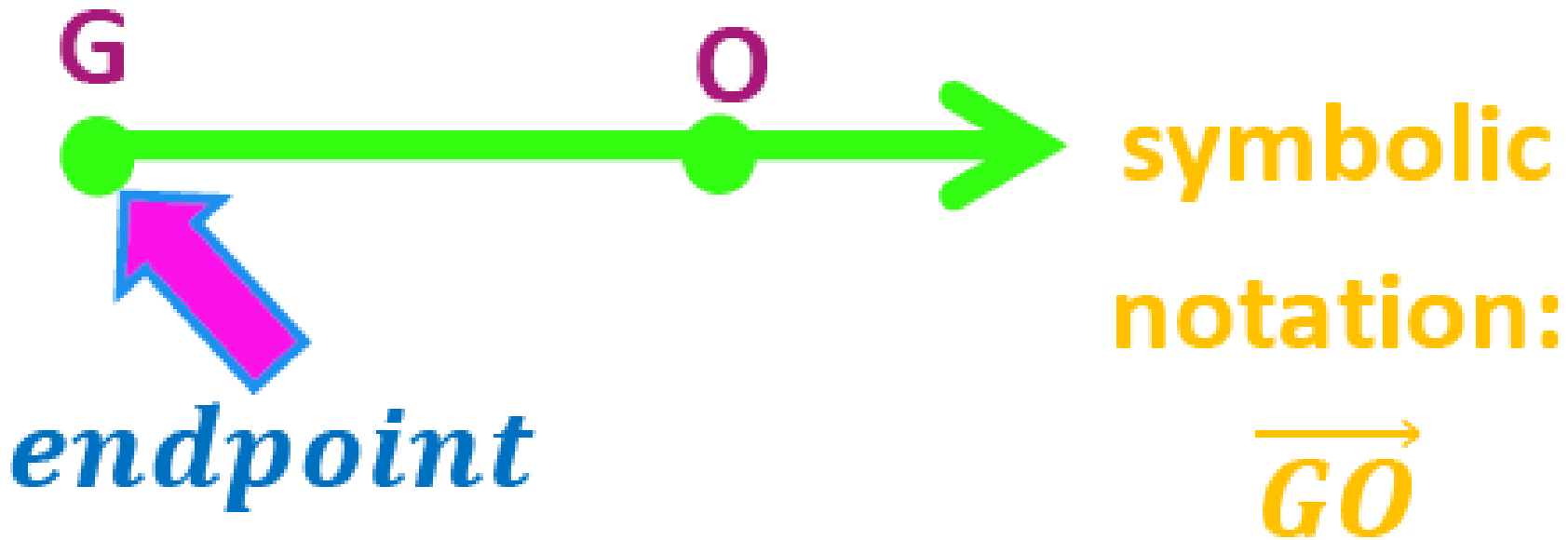


line segment

symbolic notation: \overline{ME}

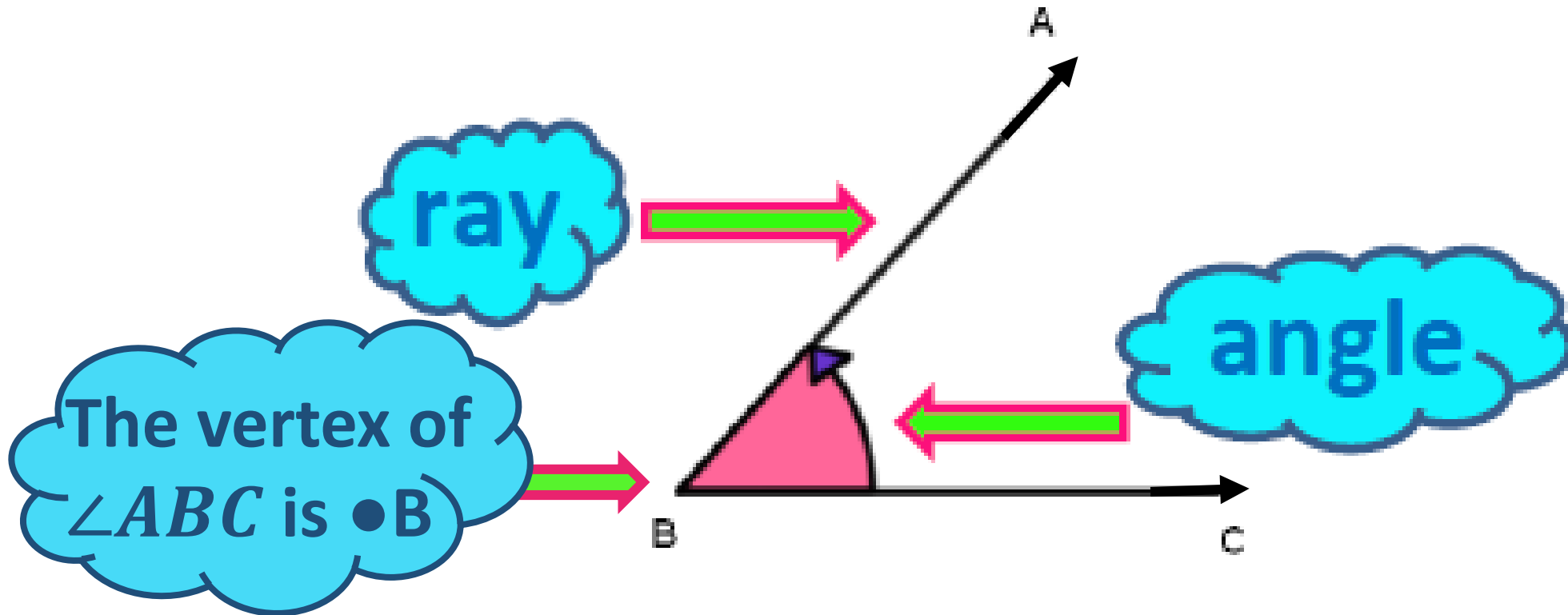


a part of a line that begins at a point and continues forever in one direction





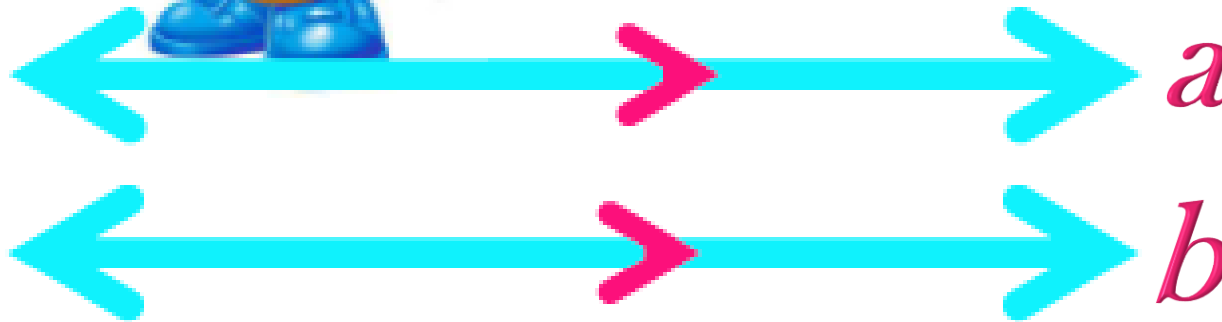
a figure created by two distinct rays that share a common endpoint



parallel lines



Parallel lines have the same slope but different y-intercepts.



So, $a \parallel b$

Parallel lines lie in the same plane and do not intersect.

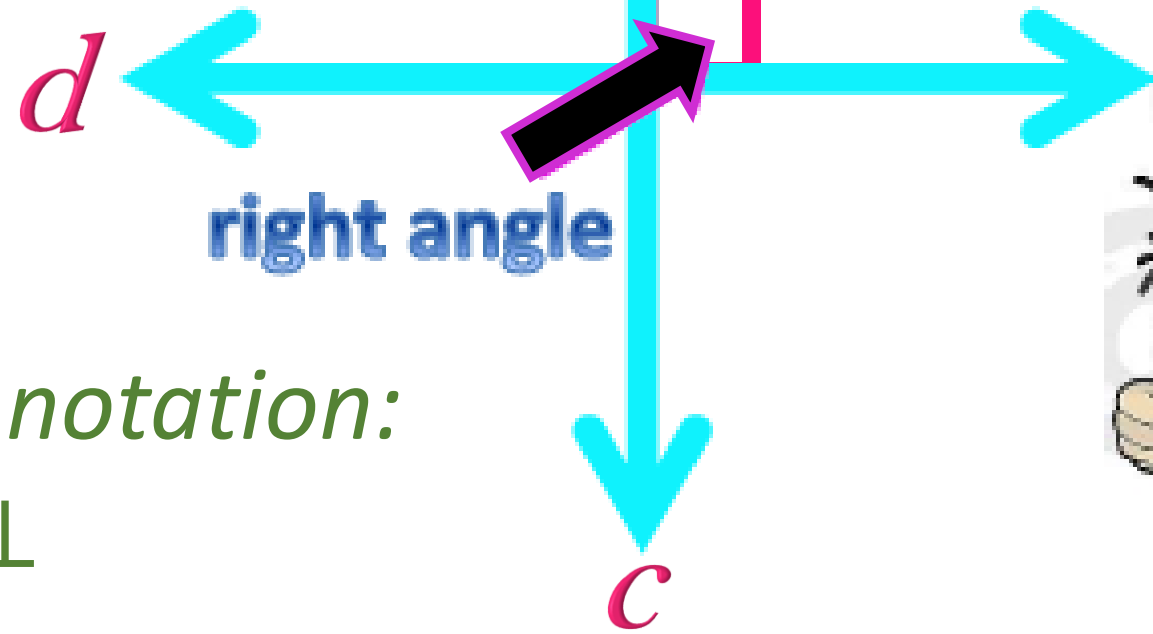
symbolic notation:

\parallel

perpendicular lines

Perpendicular lines intersect to form right angles.

Perpendicular lines have negative reciprocal slopes.



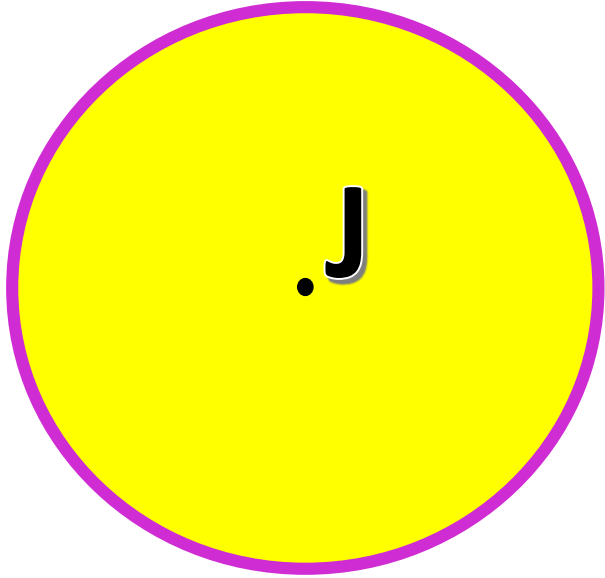
symbolic notation:
 \perp



So,
 $c \perp d$

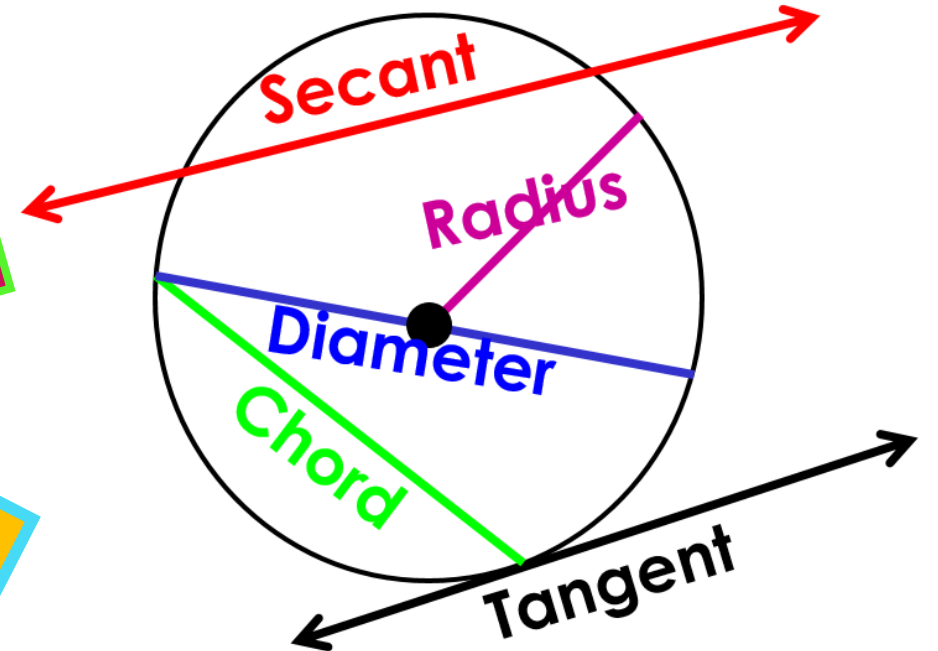
Circle

The set of all points equidistant from a point in a plane



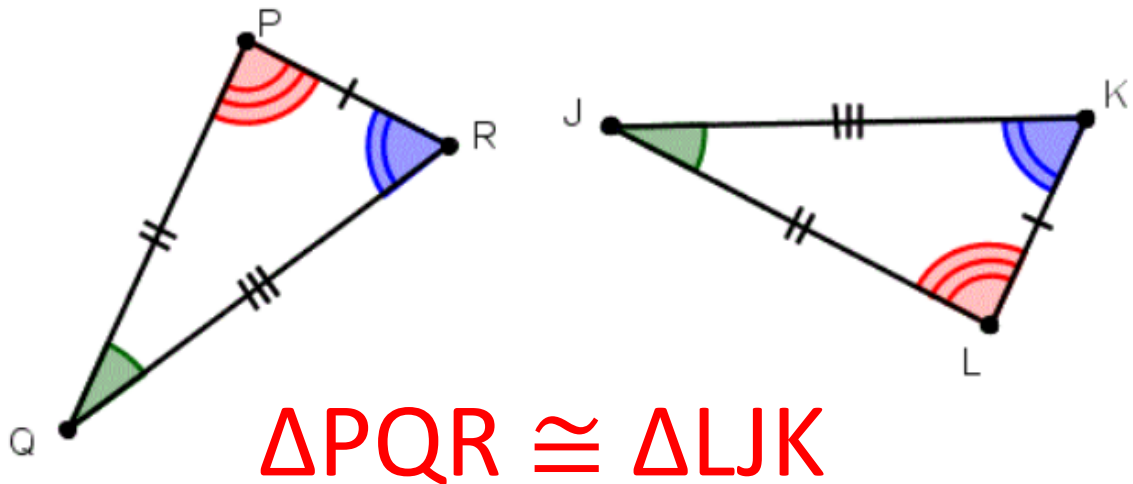
Symbolic
Notation: $\bullet J$

Also recognize
these terms



congruent

Two figures, segments, triangles, etc. that have the same size, same shape, same measure

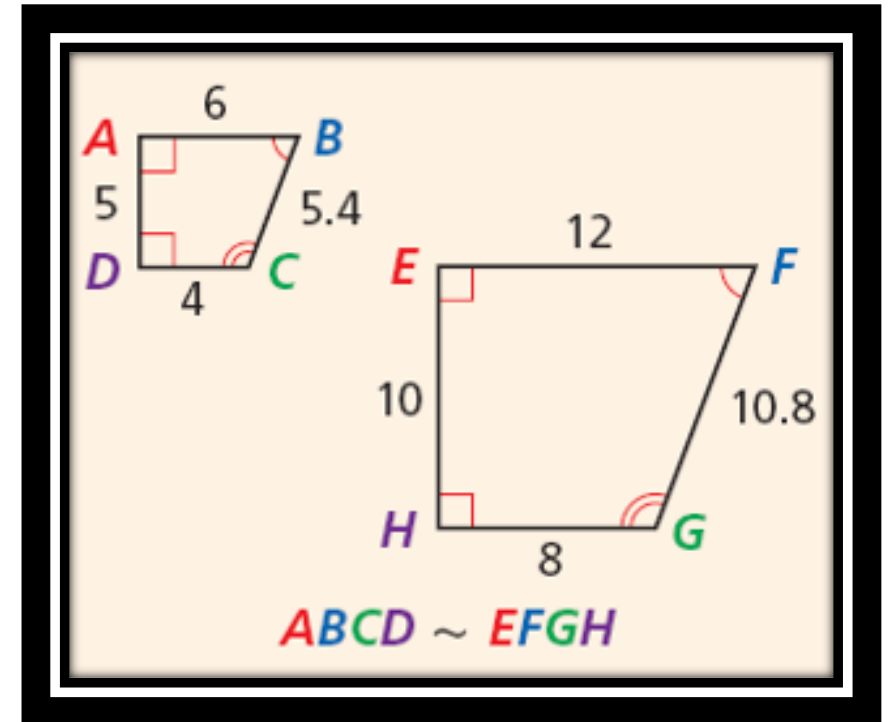
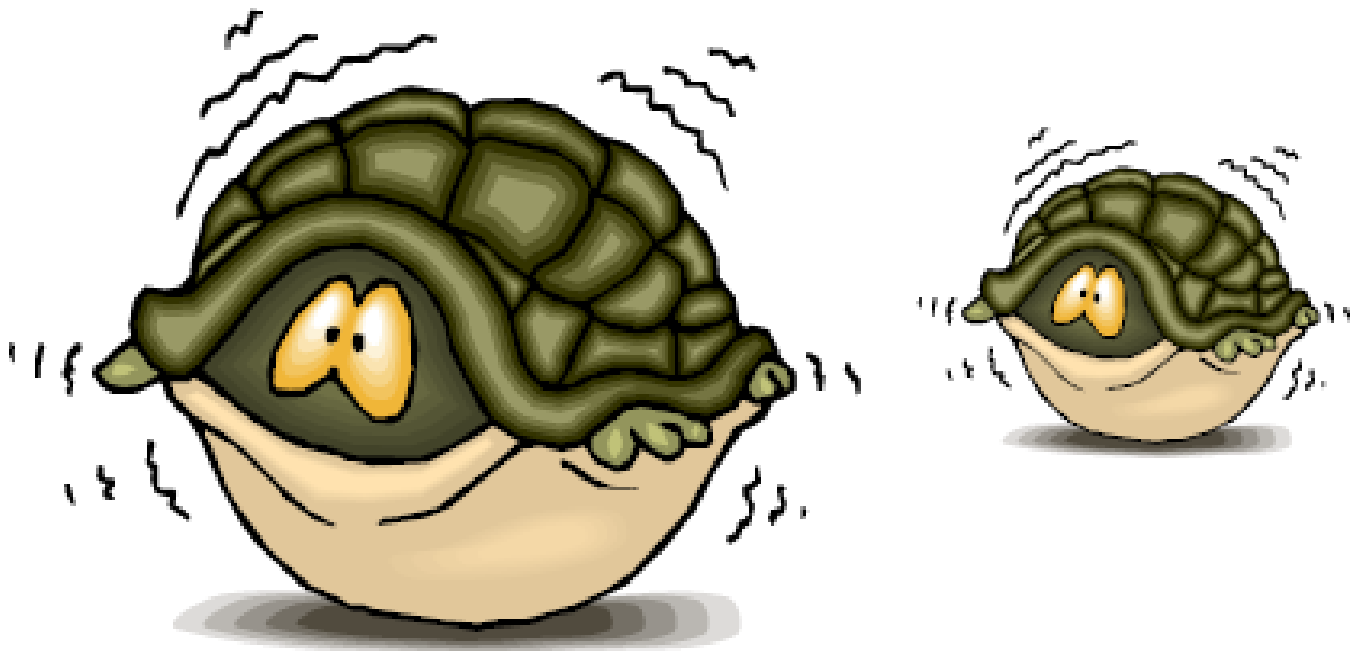


symbolic notation:

\cong

similar figures

figures that have the same shape
but not necessarily the same size

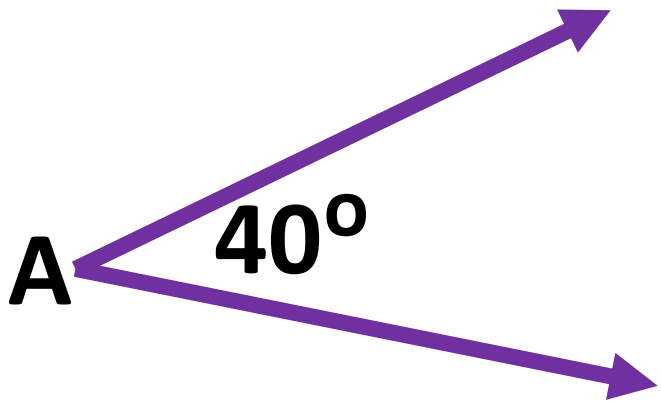


Symbolic
Notation:

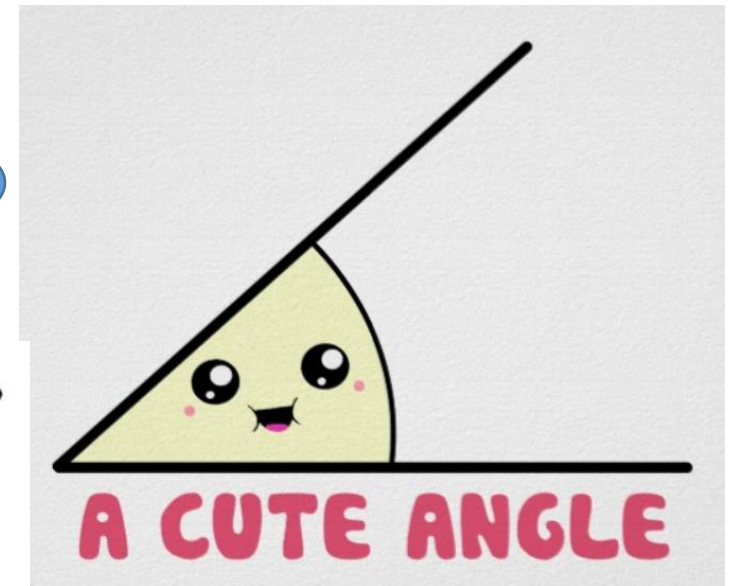
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acute angle

an angle whose measure is less than 90°

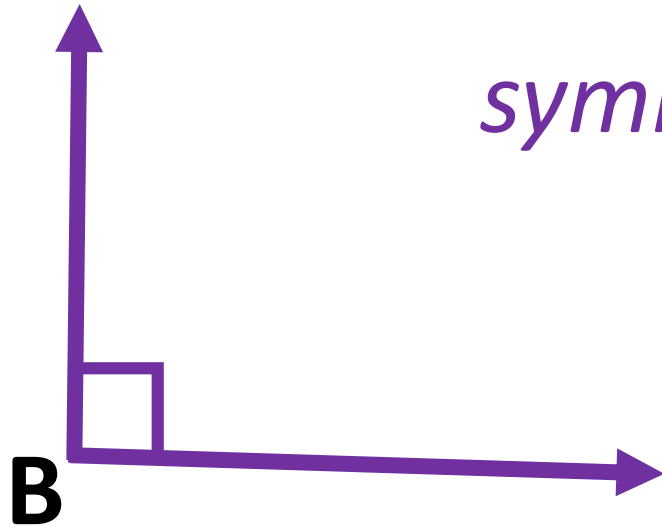


symbolic notation:
 $m\angle A = 40^\circ$



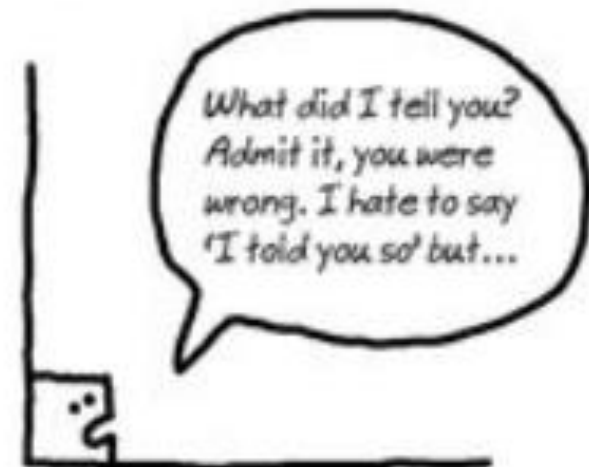
right angle

an angle whose measure is exactly 90°



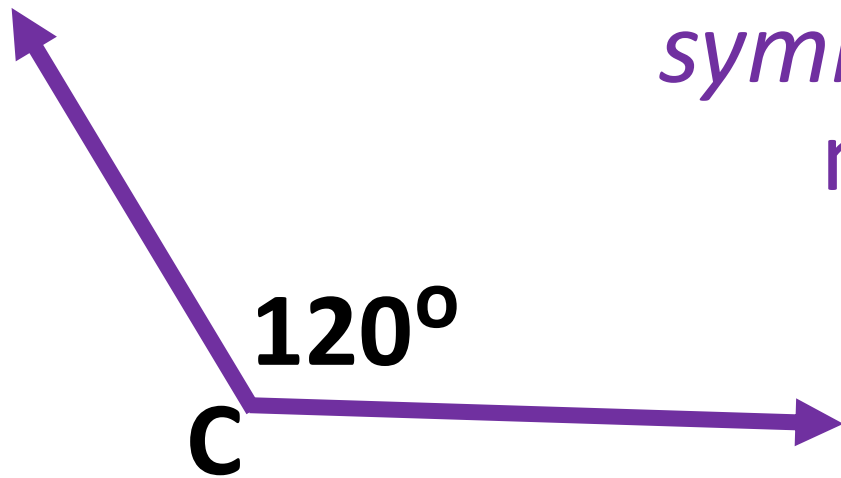
symbolic notation:
 $m\angle B = 90^\circ$

annoyingly right angle

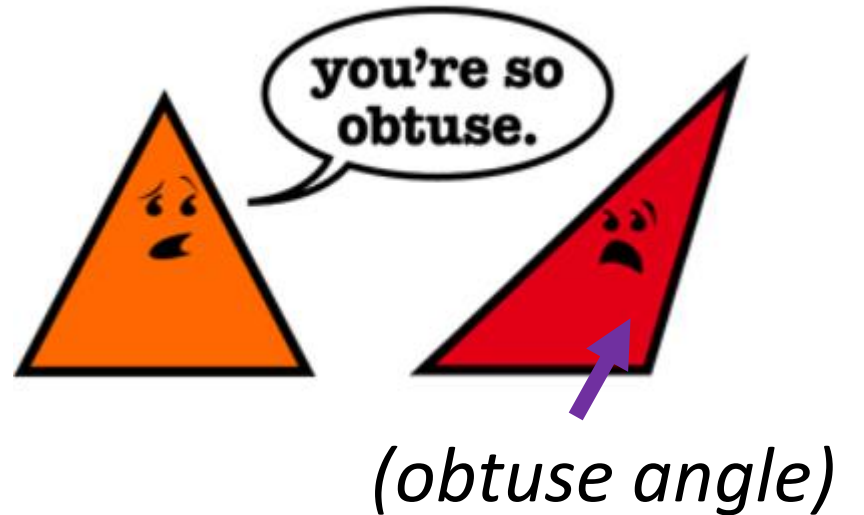


obtuse angle

an angle whose measure is greater than 90°

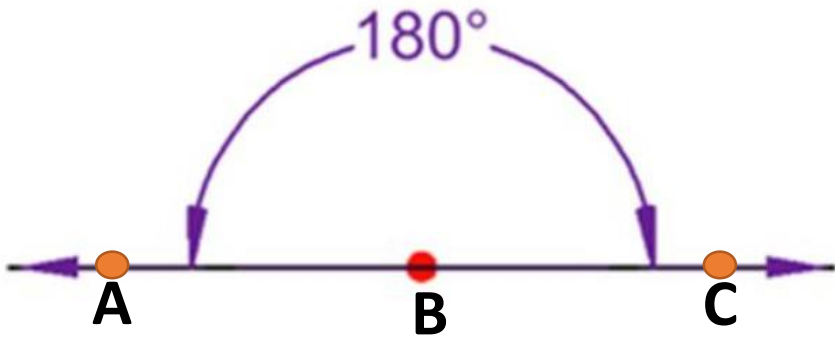


symbolic notation:
 $m\angle C = 120^\circ$



straight angle

an angle whose measure is exactly 180°



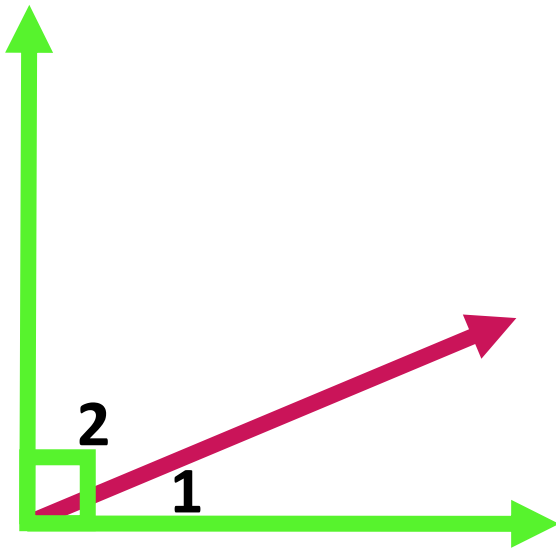
symbolic notation:

$$m\angle ABC = 180^\circ$$

**HINT: THERE IS ONLY 1
STRAIGHT ANGLE...(thus a
straight angle is different from
supplementary angles!!!)**

Complementary Angles

two angles whose sum is equal to 90°

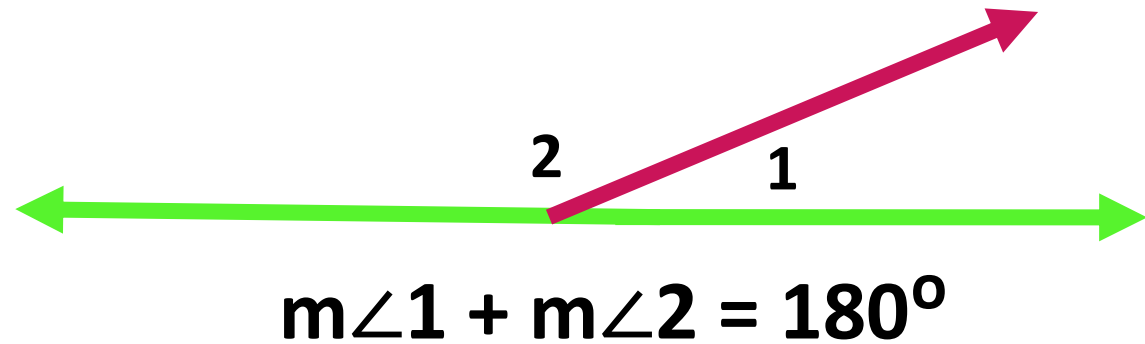
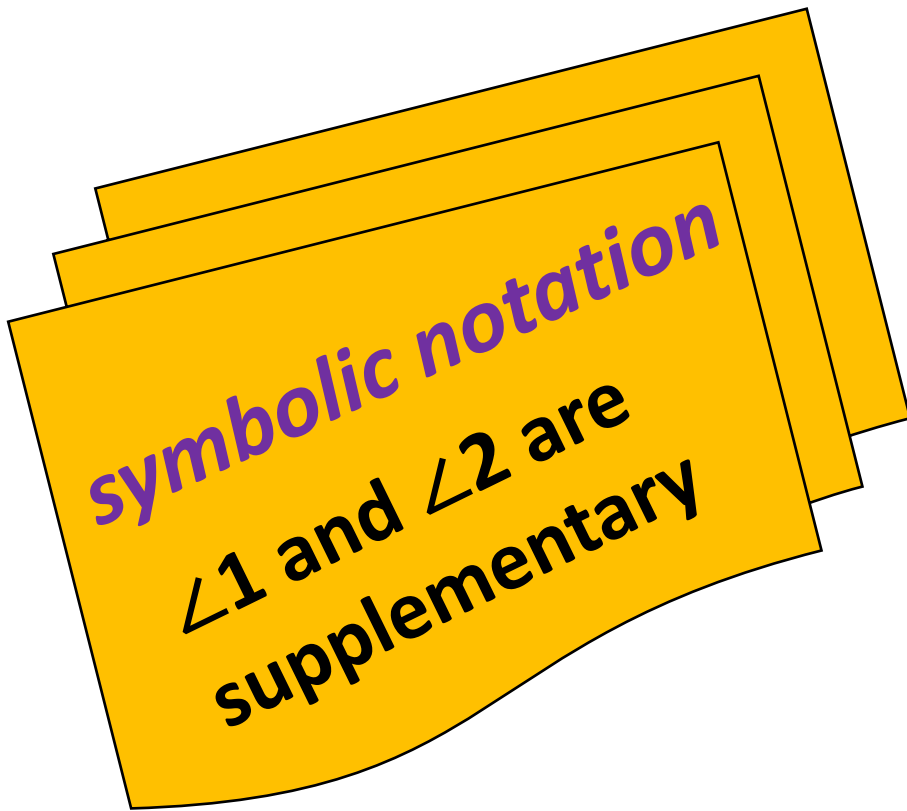


$$m\angle 1 + m\angle 2 = 90^\circ$$

symbolic notation
 $\angle 1$ and $\angle 2$ are
complementary

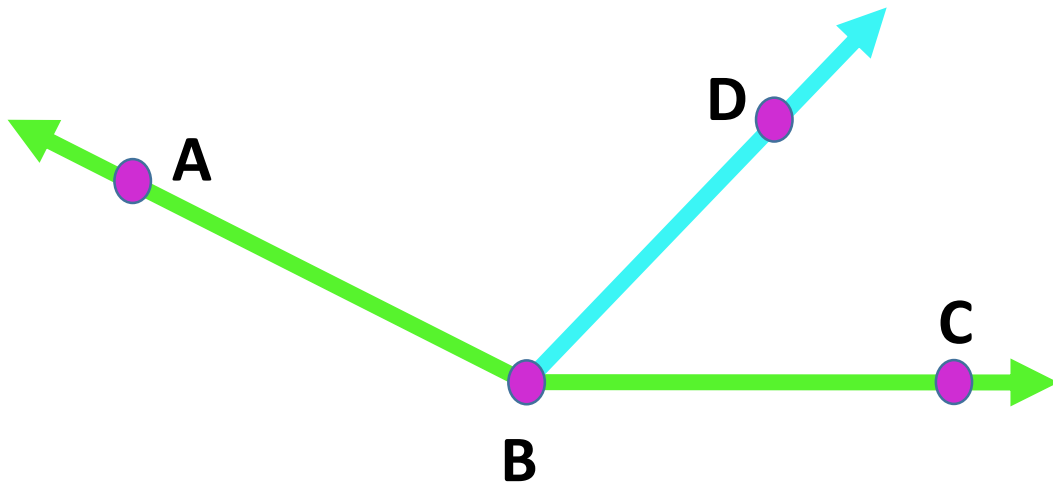
Supplementary Angles

two angles whose sum is equal to 180°



Adjacent Angles

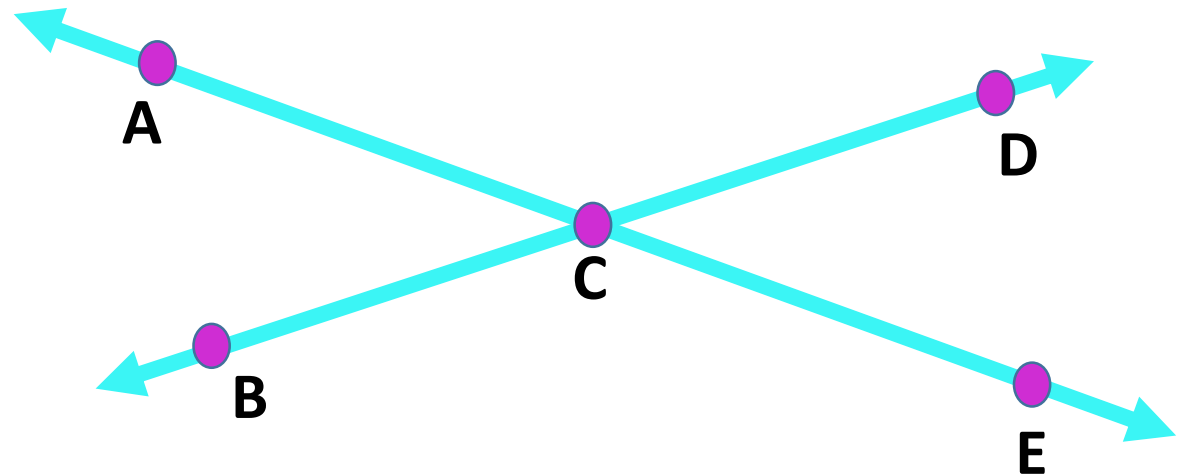
two angles that share a common ray



symbolic notation
 $\angle ABD$ and $\angle DBC$ are
adjacent angles

Vertical Angles

symbolic notation
 $\angle ACB$ and $\angle DCE$
are vertical angles

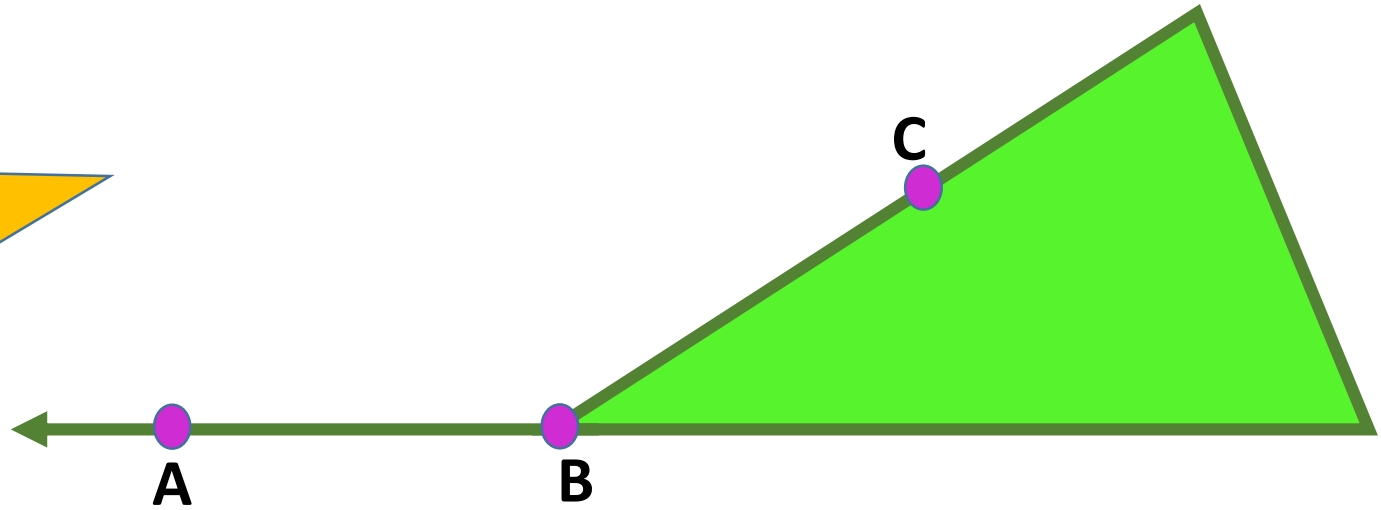


two angles that are opposite of each other and share a common vertex

Exterior Angles

symbolic notation

$\angle ABC$ is an exterior
angle



an angle that lies on the exterior of a figure