
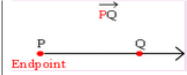


# Math Geometric Symbols with Examples

Symbol	Symbol Name	Symbol Meaning	Example
$\widehat{AB}$	Arc	arc from point A to point B	$\widehat{AB} = 60^\circ$
$^\circ$	Degree	1 turn = $360^\circ$	$\alpha = 60^\circ$
$\sphericalangle$	Angle	formed by two rays	$\sphericalangle ABC = 30^\circ$
$\sphericalangle$	Measured Angle		$\sphericalangle ABC = 30^\circ$
$\sphericalangle$	Spherical Angle		$\sphericalangle AOB = 30^\circ$
$\perp$	Right Angle	$= 90^\circ$	$\alpha = 90^\circ$
$'$	Arcminute	$1^\circ = 60'$	$\alpha = 60^\circ 59'$
$''$	Arcsecond	$1' = 60''$	$\alpha = 60^\circ 59' 59''$
$\leftrightarrow$	Line	infinite line	
$\overline{AB}$	Line Segment	line from point A to point B	
$\overrightarrow{AB}$	Ray	line that start from point A	
$\perp$	Perpendicular	perpendicular lines ( $90^\circ$ angle)	$\overline{AC} \perp \overline{BC}$
$\parallel$	Parallel	parallel lines	$\overline{AB} \parallel \overline{CD}$
$\cong$	Congruent to	equivalence of geometric shapes and size	$\triangle ABC \cong \triangle XYZ$
$\sim$	Similarity	same shapes, not same size	$\triangle ABC \sim \triangle XYZ$
$\triangle$	Triangle	triangle shape	$\triangle ABC \cong \triangle BCD$
$ x-y $	Distance	distance between points x and y	$ x-y  = 5$
$\pi$	pi Constant	$\pi = 3.141592654\dots$ is the ratio between the circumference and diameter of a circle	$c = \pi \cdot d = 2 \cdot \pi \cdot r$
rad	Radians	radians angle unit	$360^\circ = 2\pi$ rad
grad	Grads	grads angle unit	$360^\circ = 400$ grad