Geometry symbols

Symbol	Symbol Name	Meaning / definition	Example
۷	angle	formed by two rays	∠ABC = 30°
∠	measured angle		∠ABC = 30°
∢	spherical angle		<aob 30°<="" =="" th=""></aob>
L	right angle	= 90°	α = 90°
٥	degree	1 turn = 360°	$\alpha = 60^{\circ}$
deg	degree	1 turn = 360deg	α = 60deg
,	prime	arcminute, 1° = 60′	α = 60°59′
11	double prime	arcsecond, 1' = 60"	α = 60°59′59″
$\begin{array}{c} \leftrightarrow \\ \mathrm{AB} \end{array}$	line	infinite line	
AB	line segment	line from point A to point B	
\overrightarrow{AB}	ray	line that start from point A	
AB	arc	arc from point A to point B	AB = 60°
	perpendicular	perpendicular lines (90° angle)	AC ⊥ BC
II	parallel	parallel lines	AB CD

Symbol	Symbol Name	Meaning / definition	Example
≅	congruent to	equivalence of geometric shapes and size	$\triangle ABC \cong \triangle XYZ$
~	similarity	same shapes, not same size	ΔABC~ ΔXYZ
Δ	triangle	triangle shape	ΔABC≅ ΔBCD
<i>x</i> - <i>y</i>	distance	distance between points x and y	<i>x-y</i> = 5
π	pi constant	π = 3.141592654 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	$360^{\circ} = 2\pi \text{ rad}$
С	radians	radians angle unit	360° = 2π ^c
grad	gradians / gons	grads angle unit	360° = 400 grad
g	gradians / gons	grads angle unit	360° = 400 ^g