

Algebra 2 Summer Assignment (2026-2027)

Students transitioning from Geometry to Algebra 2 must complete the following assignment prior to the first day of the 2026–27 school year.

Assignment Instructions

1. Go to www.ixl.com
2. Log into your IXL account.
3. Click Learning → Math → Alg 1 and Geometry.
4. Complete each assigned skill topic listed by your teacher.
5. Reach a Smart Score of 85 or higher on each topic.

Important

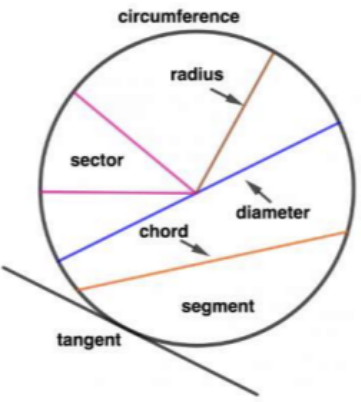
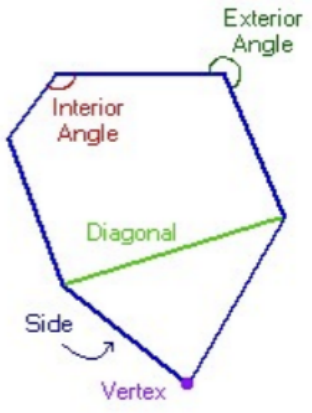
- This assignment will count as a TEST GRADE.
- It is DUE ON THE FIRST DAY OF SCHOOL.
- No late or partial credit will be given.

Name:

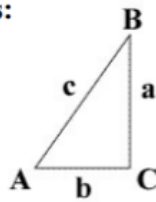
Date:

Period:

STUFF YOU MUST KNOW – Geometry

<p>Area Formulas: A=</p> <p>Square-</p> <p>Rectangle-</p> <p>Parallelogram-</p> <p>Trapezoid-</p> <p>Circle-</p> <p>Right Triangle-</p> <p>Equilateral Triangle:</p> <p>Regular Polygon:</p>	<p>Volume Formulas: V=</p> <p>Cube-</p> <p>Rectangular Prism-</p> <p>Cylinder-</p> <p>Pyramid-</p> <p>Cone-</p> <p>Sphere-</p> <p>Volume is measured in _____ units.</p> <p>Parts of a Circle:</p> 	<p>Polygon Names:</p> <p>Sides: Name:</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p>
<p>Surface Area Formulas: SA=</p> <p>Cube-</p> <p>Sphere-</p> <p>Cylinder:</p> <p>Area is measured in _____ units.</p> <p>Angles:</p> <p>Acute-</p> <p>Obtuse-</p> <p>Complementary-</p> <p>Supplementary-</p>	<p>Arc and Sector:</p> <p>Arc Length-</p> <p>Sector Area-</p> <p>Perimeter Formulas: P =</p> <p>Square-</p> <p>Rectangle-</p> <p>Circumference of a Circle-</p>	<p>Parts of a Polygon:</p>  <p>Polygon Interior Angle Sums:</p> <p>Triangle-</p> <p>Quadrilateral-</p> <p>Regular Polygon-</p>

Right Triangles:



Pythagorean Theorem-

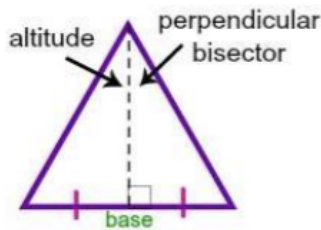
Trigonometry (SOHCAHTOA)-

$\sin \theta =$

$\cos \theta =$

$\tan \theta =$

Parts of a Triangle:



Similarity:

Ratio of sides-

Ratio of perimeters-

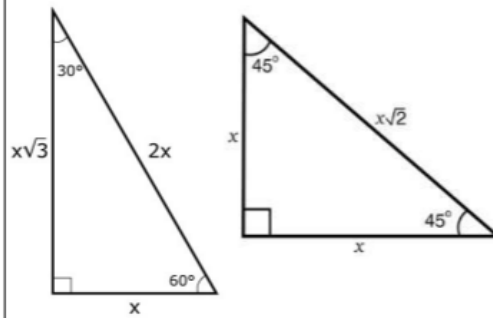
Ratio of areas-

Ratio of volumes-

Triangle Congruence:

- 1.
- 2.
- 3.
- 4.
- 5.

Special Right Triangles:



Logic:

Conditional Statement-

Converse-

Inverse-

Contrapositive-

Lines:

Line Segment-

Ray-

Parallel Lines-

Parallel & Perpendicular Lines:

$y = mx + b$

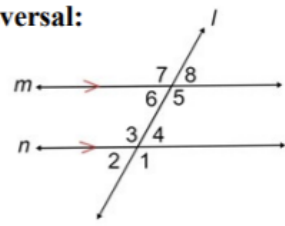
Parallel-

Perpendicular-

Distance Formula:

Midpoint Formula:

Parallel Lines cut by a transversal:



Congruent Angles-

Supplementary Angles-

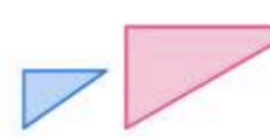
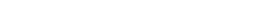
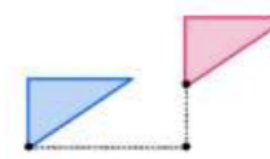
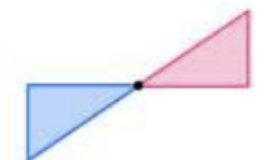
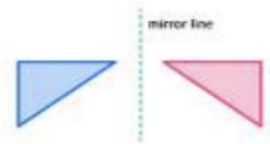
Vertical Angles-

Corresponding Angles-

Alternate Interior Angles-

Alternate Exterior Angles-

Transformations:



June

Students transitioning Geometry to Algebra 2 will need to complete the following assignments prior to the first day of the 2026-27 school year. Your goal should be to reach a Smart Score of 85 or higher on each IXL topic. Go to [IXL.com](https://www.ixl.com), log into your account, click "Learning", then "Math", and go to Algebra 1 and some Geometry. Complete the following skill topics. Please enter your grade and have a parent initial the block. This will be a Test Grade and Due on First Day of School.

2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8 Solve 2 step linear equations C.8	9	10 Find the slope from 2 points. K.2	11	12 Slope intercept form: write an equation. L.6	13
14	15	16 Point-slope form: graph an equation. L.14	17	18 Point-slope form: write an equation. L.15	19 Practice Memory Card Geometry	20
21	22 Multiply 2 binomials w.8	23	24 Match quadratic functions and graphs Y.8	25	26 Solve a quadratic equation by factoring Z.3	27
28	29	30 Identify linear, quadratic, and exponential functions from graphs. AA.2				

July

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2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 Simplify radical expressions with variables. EE.2	3 Practice Memory Card Geometry	4
5	6 Simplify complex Fractions. HYL	7	8 Distributive Property BHL	9	10 Write Variable Expressions YVW	11
12	13	14 Add and Subtract Polynomials 5EK	15	16 Multiply two binomials M7Q	17 Practice Memory Card Geometry	18
19	20 Multiply polynomials 58A	21	22 Factor polynomials TAH	23	24 Multiply functions 8PM	25
26	27	28 Surface Area VGT	29	30 Reflections of functions KD2	31 Practice Memory Card Geometry	