

Pre-Cal Summer Assignment (2026-2027)

Students transitioning from Algebra 2 to Pre Cal 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 2.
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.

June

Students transitioning from Algebra 2 to Pre-Cal 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 2. Complete the following skill topics. Please enter your grade and have a parent initial the block.

2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8 Add, Subtract, Multiply, & Divide Complex Numbers. K.6	9	10 Add, Subtract, Multiply, & Divide Polynomials. L.6	11	12 Study Memory Card Alg 2	13
14	15	16 Match quadratic functions and graphs. N.7	17	18 Solve a quadratic equation by factoring. O.3	19	20
21	22 Simplify radical expression using the distributive property. R.10	23	24 Composition of linear & quadratic functions: find a value. U.6	25	26 Study Memory Card Alg 2	27
28	29	30 Solve rational equations. X.8				

July

Students transitioning from Algebra 2 to Pre-Cal 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 2. Complete the following skill topics. Please enter your grade and have a parent initial the block.

2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 Find properties of a parabola from equations in general form. DD.8	3	4
5	6 Factor quadratics M.5	7	8 Transformations of functions. W.5	9	10 Study Memory Card Alg 2	11
12	13	14 Domain and Range 78A	15	16 Identify Functions LBJ	17	18
19	20 Solve Linear Equations SNN	21	22 Graph Inequalities RK5	23	24 Study Memory Card Alg 2	25
26	27	28 Find the slope of a linear function. W67	29	30 Graph Linear functions. LSG	31	

Name:

Date:

Period:

STUFF YOU MUST KNOW – Algebra 2

Memory Exponents	Order of Operations	Parent Functions
$1^2 =$ $2^2 =$ $3^2 =$ $4^2 =$ $5^2 =$ $6^2 =$ $7^2 =$ $8^2 =$ $9^2 =$ $10^2 =$ $11^2 =$ $12^2 =$ $13^2 =$ $14^2 =$ $15^2 =$ $16^2 =$ $17^2 =$ $18^2 =$ $19^2 =$ $20^2 =$	Quadratic Formula If $ax^2 + bx + c = 0$, then $x =$	$y = \#$ $y = x$ $y = x^2$
$1^3 =$ $2^3 =$ $3^3 =$ $4^3 =$ $5^3 =$ $6^3 =$	Discriminant < 0 $= 0$ > 0	$y = x^3$
$2^1 =$ $2^2 =$ $2^3 =$ $2^4 =$ $2^5 =$ $2^6 =$ $2^7 =$ $2^8 =$ $2^9 =$ $2^{10} =$	Keep/Change/Flip $\frac{a}{\frac{b}{\frac{c}{d}}} =$	$y = \sqrt{x}$ $y = x $
Transformations- Oven In House $y = a f(bx + c) + d$	Midpoint Formula	$y = \sqrt[3]{x}$
$y = f(x)$	Distance Formula	$y = b^x$
$y = f(x) - d$	Slope-Intercept Form	$y = \ln x$ $y = \log x$
$y = f(x - c)$	Point-Slope Form	$y = \frac{1}{x}$
$y = -f(x)$		$y = \frac{1}{x^2}$
$y = f(-x)$		$y = \ x\ $
$y = a f(x)$		
$y = f(bx)$		
$y = f^{-1}(x)$		
Fractions		
$\frac{0}{\#} =$		
$\frac{0}{0} =$		
$\frac{\#}{0} =$		

<p>Exponents & Radicals</p> $a^0 =$ $(ab)^n =$ $a^x b^y =$ $\sqrt{a} =$ $\frac{a^x}{a^y} =$ $\sqrt[n]{a} =$ $\left(\frac{a}{b}\right)^n =$ $\sqrt[n]{a^m} =$ $a^{-x} =$ $\sqrt[n]{ab} =$ $(a^x)^y =$ $\sqrt[n]{\frac{a}{b}} =$	<p>Imaginary Numbers</p> $\sqrt{-1} =$ $i^2 =$ $i^3 =$ $i^4 =$	<p>Quadratics (Parabolas)</p> <p>Standard Form:</p> <p>Vertex Form:</p> <p>Vertex:</p> <p>Axis of Symmetry:</p> <p>Complete the Square</p> <p>Conjugate of $a + b$ is $\underline{\hspace{2cm}}$ because $(a + b)(a - b) =$</p> <p>Rationals Horizontal Asymptotes (HA)</p> <ol style="list-style-type: none"> <p>Domain</p> <p>Vertical Asymptotes (VA)</p> <p>Points of Discontinuity (holes)</p> <p>x-intercepts (zeros, roots, solutions)</p> <p>y-intercepts</p>
<p>Logarithm Rules</p> <p>Change from log to exponential: $\log_b y = x$</p> <p>$\ln y = x$</p> <p>$\log y = x$</p> <p>Change from exponential to log: $b^x = y$</p> <p>More log rules:</p> <p>$\log_a a =$</p> <p>$\log_a 1 =$</p> <p>$\log_a a^n =$</p> <p>$\log_b (mn) =$</p> <p>$\log_b \left(\frac{m}{n}\right) =$</p> <p>$\log_b m^n =$</p>	<p>Factoring</p> <p>Difference of Squares $a^2 - b^2 =$</p> <p>Perfect Square Trinomial $a^2 - 2ab + b^2 =$ $a^2 + 2ab + b^2 =$</p> <p>Grouping $ac + ad + bc + bd =$</p>	