IXL Skill Alignment

Alg 2 alignment for Eureka Math Common Core Curriculum

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Module 1

Polynomial, Rational, and Radical Relationships

Textbook section	IXL skills	
Topic A: Polynomials-From Base Ten to Base X	**J.5**	Solve a quadratic equation using the zero product property >>
	J.12	Write a quadratic function from its zeros >>
	K.2	Add and subtract polynomials >>
	K.3	Multiply polynomials >>
	K.8	Find the roots of factored polynomials >>
	K.9	Write a polynomial from its roots >>
	L.9	Add and subtract radical expressions >>
	L.11	Simplify radical expressions using conjugates >>
	See also:	
	K.1	Polynomial vocabulary >>
Topic B: Factoring-Its Use and Its Obstacles	**I.3**	Factor quadratics >>
	I.6	Factor sums and differences of cubes >>
	I.7	Factor polynomials >>
	J.6	Solve a quadratic equation by factoring >>
	J.8	Solve a quadratic equation by completing the square >>
	J.9	Solve a quadratic equation using the quadratic formula >>
	K.4	Divide polynomials using long division >>
	K.9	Write a polynomial from its roots >>
	K.14	Match polynomials and graphs >>
Topic C: Solving and Applying Equations-Polynomial, Rational, and Radical	**E.13**	Solve a system of equations in three variables using elimination >>
	L.13	Solve radical equations >>
	N.4	Simplify rational expressions >>
	N.5	Multiply and divide rational expressions >>
	N.6	Add and subtract rational expressions >>
	N.7	Solve rational equations >>
	T.9	Graph parabolas >>

See also:

E.12 Solve a system of equations in three variables using substitution >>

N.2 Evaluate rational expressions I >>

N.3 Evaluate rational expressions II >>

U.4 Write equations of circles in standard form using properties >>

U.5 Convert equations of circles from general to standard form >>

U.7 Graph circles >>

Topic D: A Surprise from Geometry-Complex Numbers Overcome All Obstacles

H.1 Introduction to complex numbers >>

H.2 Add and subtract complex numbers >>

H.4 Multiply complex numbers >>

J.10 Using the discriminant >>

See also:

K.11 Complex conjugate theorem >>

Module 2

Trigonometric Functions

Textbook section	IXL skills
Topic A: The Story of Trigonometry and Its Contexts	**X.1** Convert between radians and degrees >> **X.6** Reference angles >> **Y.7** Sin, cos, and tan of special angles >> **Y.8** Csc, sec, and cot of special angles >> *See also:* **X.4** Quadrants >>
Topic B: Understanding Trigonometric Functions and Putting Them to Use	**AA.3** Trigonometric identities I >> **AA.4** Trigonometric identities II >> *See also:* **Z.1** Find properties of sine functions >> **Z.4** Graph sine functions >> **Z.8** Graph cosine functions >> **Z.9** Graph sine and cosine functions >>

Module 3

Exponential and Logarithmic Functions

Textbook section	IXL skills	
Topic A: Real Numbers	**M.2**	Multiplication with rational exponents >>
	M.3	Division with rational exponents >>
	M.4	Power rule >>
	M.5	Simplify expressions involving rational exponents I >>
	M.6	Simplify expressions involving rational exponents II >>
	See also:	
	D.10	Average rate of change >>
	L.1	Roots of integers >>
	L.2	Roots of rational numbers >>
	M.1	Evaluate rational exponents >>
Topic B: Logarithms	**R.1**	Convert between exponential and logarithmic form: rational bases >>
	R.4	Evaluate logarithms >>
	R.5	Evaluate natural logarithms >>
	R.6	Change of base formula >>
	R.8	Product property of logarithms >>
	R.9	Quotient property of logarithms >>
	R.10	Power property of logarithms >>
	R.11	Properties of logarithms: mixed review >>
	S.7	Solve logarithmic equations I >>
	S.8	Solve logarithmic equations II >>
Topic C: Exponential and Logarithmic Functions and their Graphs	**O.11**	Find inverse functions and relations >>
	See also:	
	O.8	Identify inverse functions >>
	S.1	Domain and range of exponential and logarithmic functions >>

Topic D: Using Logarithms in Modeling Situations

S.4 Solve exponential equations using factoring >>

S.5 Solve exponential equations using common logarithms >>

S.6 Solve exponential equations using natural logarithms >>

S.12 Exponential growth and decay: word problems >>

S.13 Compound interest: word problems >>

S.14 Continuously compounded interest: word problems >>

See also:

BB.5 Classify formulas and sequences >>

Topic E: Geometric Series and Finance

Module 4

Inferences and Conclusions from Data

Textbook section	IXL skills
Topic A: Probability	**CC.9** Find conditional probabilities >> **CC.11** Find conditional probabilities using two-way frequency tables >> **CC.12** Find probabilities using the addition rule >> *See also:* **CC.7** Identify independent events >> **CC.10** Independence and conditional probability >>
Topic B: Modeling Data Distributions	
Topic C: Drawing Conclusions Using Data from a Sample	**EE.1** Identify biased samples >> **EE.2** Variance and standard deviation >>
Topic D: Drawing Conclusions Using Data from an Experiment	**EE.12** Experiment design >>