

IXL Skill Alignment

Alg 2 alignment for EngageNY Common Core Curriculum

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Polynomial, Rational, and Radical Relationships

Textbook section	IXL ski	lls
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 als	50:
	K.1	Polynomial vocabulary >>
Topic B: Factoring-Its Use and Its Obstacles	1.3	Factor quadratics >>
	1.6	Factor sums and differences of cubes >>
	1.7	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	H.1	Introduction to complex numbers >>
Numbers Overcome All Obstacles	H.2	Add and subtract complex numbers >>
	H.4	Multiply complex numbers >>
	J.10	Using the discriminant >>
	See als	o:
	K.11	Complex conjugate theorem >>



Trigonometric Functions

Textbook section	IXL skills	
Topic A: The Story of Trigonometry and Its	X.1	Convert between radians and degrees >>
Contexts	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	AA.3	Trigonometric identities I >>
and Putting Them to Use	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 >>



Exponential and Logarithmic Functions

Textbook section	IXL skil	lls
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 >>
	М.6	Simplify expressions involving rational exponents II >>
	See als	50:
	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	0.11	Find inverse functions and relations >>
·	See als	50:
	8.0	Identify inverse functions >>
	S.1	Domain and range of exponential and logarithmic functions >>



	See also BB.5	o: Classify formulas and sequences >>
	S.14	Continuously compounded interest: word problems >>
	S.13	Compound interest: word problems >>
	S.12	Exponential growth and decay: word problems >>
	S.6	Solve exponential equations using natural logarithms >>
	S.5	Solve exponential equations using common logarithms >>
Topic D: Using Logarithms in Modeling Situations	S.4	Solve exponential equations using factoring >>

Topic E: Geometric Series and Finance



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 >>