



# IXL Skill Alignment

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# Chapter P

## Prerequisites: Fundamental Concepts of Algebra

### Textbook section

**P.1:** Algebraic Expressions, Mathematical Models, and Real Numbers

### IXL skills

#### Expressions

1. Evaluate variable expressions involving integers T9J
2. Simplify variable expressions using properties PVC

#### Rational and irrational numbers

3. Sort rational and irrational numbers 4Q6
4. Classify rational and irrational numbers B7F

#### Compare and order rational numbers

5. Compare and order rational numbers ALW

#### Absolute value

6. Absolute value and opposites KGR

**P.2:** Exponents and Scientific Notation

#### Properties of exponents

1. Negative exponents SCM
2. Multiplication with exponents HQD
3. Division with exponents 9SS
4. Multiplication and division with exponents HPK
5. Power rule RWY

#### Expressions

6. Evaluate expressions using properties of exponents LRR
7. Identify equivalent expressions involving exponents I EUF
8. Identify equivalent expressions involving exponents II RKA

#### Scientific notation

9. Convert between standard and scientific notation 7DX
10. Multiply numbers written in scientific notation TPB

11. Divide numbers written in scientific notation PY5

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**P.3: Radicals and Rational Exponents****Simplify radical expression**

1. Simplify radical expressions with variables 9LT

**Radical operations**

2. Multiply radical expressions PUM
3. Divide radical expressions CCU
4. Add and subtract radical expressions L46
5. Simplify radical expressions using the distributive property QAX
6. Simplify radical expressions using conjugates FX7

**Roots**

7. Roots of integers 8RV
8. Roots of rational numbers 28Q
9. Find roots using a calculator 9E4
10. Nth roots 6NE

**Rational exponents**

11. Evaluate rational exponents 26H
12. Operations with rational exponents NQB
13. Simplify expressions involving rational exponents 7TC

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**P.4: Polynomials**

1. Polynomial vocabulary DYB
2. Add and subtract polynomials 9A3
3. Multiply polynomials 8GN

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**P.5: Factoring Polynomials**

1. Factor out a monomial NMZ
2. Factor quadratics UB5
3. Factor using a quadratic pattern SZN
4. Factor by grouping HVT
5. Factor sums and differences of cubes 9PW
6. Factor polynomials A2W

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**P.6: Rational Expressions****Evaluate rational expressions**

1. Evaluate rational expressions I RHV
2. Evaluate rational expressions II 9KA

**Operations with rational expressions**

3. Simplify rational expressions 37N
4. Multiply and divide rational expressions MG2
5. Add and subtract rational expressions FEX

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**P.7: Equations****Linear equations**

1. Solve linear equations SNN
2. Solve equations: complete the solution N83

**Rational equations**

3. Solve rational equations 8UN

**Multi-variable equations**

4. Solve multi-variable equations LZD

**Absolute value equations**

5. Solve absolute value equations 2JZ

**Quadratic equations**

6. Solve a quadratic equation using square roots 2UF
7. Solve a quadratic equation by factoring MHY
8. Solve a quadratic equation by completing the square YMP
9. Solve a quadratic equation using the quadratic formula FYM
10. Using the discriminant STK

**Radical equations**

11. Solve radical equations 2G6

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**P.8: Modeling with Equations**

1. Solve linear equations: word problems 2BG
2. Pythagorean Theorem and its converse JZF

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**P.9: Linear Inequalities and Absolute Value Inequalities****Write and graph inequalities**

1. Graph a linear inequality in one variable RK5
2. Write inequalities from graphs NKA
3. Write a linear inequality: word problems LLV

**Linear inequalities**

4. Solve linear inequalities 98Z

5. Graph solutions to linear inequalities 2H4

**Compound inequalities**

6. Solve compound inequalities GXA

7. Graph solutions to compound inequalities LHX

**Absolute value inequalities**

8. Solve absolute value inequalities UKU

9. Graph solutions to absolute value inequalities G85

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# Chapter 1

## Functions and Graphs

Textbook section	IXL skills
<b>1.1:</b> Graphs and Graphing Utilities	<ol style="list-style-type: none"><li>1. Coordinate plane review ZMF</li><li>2. Complete a table and graph a linear function JFG</li></ol>
<b>1.2:</b> Basics on Functions and Their Graphs	<p><b>Domain and range</b></p> <ol style="list-style-type: none"><li>1. Domain and range of absolute value functions: graphs Y8C</li></ol> <p><b>Functions</b></p> <ol style="list-style-type: none"><li>2. Identify functions QTA</li><li>3. Evaluate functions 6VY</li><li>4. Find values using function graphs 2AM</li></ol>
<b>1.3:</b> More on Functions and Their Graphs	<ol style="list-style-type: none"><li>1. Linear functions over unit intervals WVVB</li></ol>
<b>1.4:</b> Linear Functions and Slope	<p><b>Slope</b></p> <ol style="list-style-type: none"><li>1. Find the slope of a linear function NQP</li></ol> <p><b>Graph</b></p> <ol style="list-style-type: none"><li>2. Graph a linear function BRN</li></ol> <p><b>Write a linear function</b></p> <ol style="list-style-type: none"><li>3. Write the equation of a linear function RLL</li><li>4. Point-slope form: write an equation PPE</li></ol> <p><b>Horizontal and vertical lines</b></p> <ol style="list-style-type: none"><li>5. Equations of horizontal and vertical lines K8H</li><li>6. Graph a horizontal or vertical line BTK</li></ol> <p><b>Standard form</b></p> <ol style="list-style-type: none"><li>7. Write equations in standard form ESP</li><li>8. Standard form: find x- and y-intercepts 8SN</li><li>9. Standard form: graph an equation U6U</li></ol>

*Also consider*

- Match correlation coefficients to scatter plots FQ7
- Calculate correlation coefficients E8T
- Scatter plots: line of best fit Y2S
- Find the equation of a regression line 7R9

**1.5: More on Slope**

1. Slopes of parallel and perpendicular lines 6K2
2. Equations of parallel and perpendicular lines VEB
3. Average rate of change 5TE

**1.6: Transformations of Functions**

1. Function transformation rules DUV
2. Translations of functions XTT
3. Reflections of functions 2S4
4. Dilations of functions 9KX
5. Transformations of functions UAL
6. Describe function transformations JN6

**1.7: Combinations of Functions; Composite Functions**

1. Domain and range YEC
2. Add, subtract, multiply, and divide functions CLF
3. Composition of functions TBH

**1.8: Inverse Functions**

1. Identify inverse functions 2Y8
2. Find inverse functions and relations DST
3. Find values of inverse functions from graphs FDG

*Also consider*

- Find values of inverse functions from tables PBA

**1.9: Distance and Midpoint Formulas; Circles****Distance and midpoint**

1. Distance formula 59F
2. Midpoint formula: find the midpoint 2YG

**Circles**

3. Find properties of circles QBC
4. Write equations of circles in standard form FE8
5. Graph circles 2WV

**1.10: Modeling with Functions**

1. Interpret functions using everyday language U98
  2. Write linear functions: word problems 9RQ
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# Chapter 2

## Polynomial and Rational Functions

Textbook section	IXL skills
<b>2.1:</b> Complex Numbers	<ol style="list-style-type: none"> <li>Add and subtract complex numbers GNA</li> <li>Multiply and divide complex numbers RYR</li> <li>Add, subtract, multiply, and divide complex numbers 2QV</li> <li>Complex conjugates K5Q</li> </ol>
<b>2.2:</b> Quadratic Functions	<p><b>Characteristics of quadratic functions</b></p> <ol style="list-style-type: none"> <li>Find the maximum or minimum value of a quadratic function KRZ</li> <li>Characteristics of quadratic functions GRL</li> </ol> <p><b>Graphs of quadratic functions</b></p> <ol style="list-style-type: none"> <li>Graph a quadratic function DRX</li> <li>Match quadratic functions and graphs H59</li> </ol>
<b>2.3:</b> Polynomial Functions and Their Graphs	<p><b>Polynomial graphs</b></p> <ol style="list-style-type: none"> <li>Match polynomials and graphs VQK</li> <li>Domain and range of polynomials TZZ</li> </ol> <p><b>Roots of polynomials</b></p> <ol style="list-style-type: none"> <li>Find the roots of factored polynomials DTZ</li> <li>Write a polynomial from its roots GPB</li> </ol>
<b>2.4:</b> Dividing Polynomials; Remainder and Factor Theorems	<ol style="list-style-type: none"> <li>Divide polynomials using long division 5YS</li> <li>Divide polynomials using synthetic division E6K</li> <li>Evaluate polynomials using synthetic division ADF</li> </ol>
<b>2.5:</b> Zeros of Polynomial Functions	<p><b>Zeros of polynomial functions</b></p> <ol style="list-style-type: none"> <li>Rational root theorem EHC</li> <li>Fundamental Theorem of Algebra FUF</li> <li>Descartes' Rule of Signs LXL</li> </ol>

**Polynomial equations**

4. Solve equations with sums and differences of cubes 5DG
5. Solve equations using a quadratic pattern DSF

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**2.6: Rational Functions and Their Graphs**

1. Rational functions: asymptotes and excluded values YSJ

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**2.7: Polynomial and Rational Inequalities****Quadratic inequalities**

1. Graph solutions to quadratic inequalities RVR
2. Solve quadratic inequalities KL5

**Higher-degree inequalities**

3. Graph solutions to higher-degree inequalities 6PQ
4. Solve higher-degree inequalities RDR

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**2.8: Modeling Using Variation****Direct and inverse variation**

1. Write and solve direct variation equations 69A
2. Write and solve inverse variation equations PNY
3. Classify variation C9D

**Joint and combined variation**

4. Write joint and combined variation equations I ZFJ
5. Write joint and combined variation equations II W2Z

**Solve variation equations**

6. Solve variation equations JZ9

*Also consider*

- Find the constant of variation PXE

# Chapter 3

## Exponential and Logarithmic Functions

Textbook section	IXL skills
<b>3.1:</b> Exponential Functions	<ol style="list-style-type: none"> <li>Evaluate exponential functions <small>LWE</small></li> <li>Match exponential functions and graphs <small>PCX</small></li> <li>Compound interest: word problems <small>2WU</small></li> </ol>
<b>3.2:</b> Logarithmic Functions	<ol style="list-style-type: none"> <li>Convert between exponential and logarithmic form <small>SXD</small></li> <li>Evaluate logarithms <small>MQM</small></li> <li>Domain and range of exponential and logarithmic functions <small>GQ9</small></li> </ol>
<b>3.3:</b> Properties of Logarithms	<p><b>Properties of logarithms</b></p> <ol style="list-style-type: none"> <li>Change of base formula <small>CUW</small></li> <li>Product property of logarithms <small>VXL</small></li> <li>Quotient property of logarithms <small>HMN</small></li> <li>Power property of logarithms <small>BVY</small></li> </ol> <p><b>Evaluate logarithms</b></p> <ol style="list-style-type: none"> <li>Evaluate logarithms using properties <small>XWK</small></li> </ol>
<b>3.4:</b> Exponential and Logarithmic Equations	<p><b>Solve exponential equations</b></p> <ol style="list-style-type: none"> <li>Solve exponential equations using factoring <small>5LY</small></li> <li>Solve exponential equations using logarithms <small>UWM</small></li> </ol> <p><b>Solve logarithmic equations</b></p> <ol style="list-style-type: none"> <li>Solve logarithmic equations with one logarithm <small>GJH</small></li> <li>Solve logarithmic equations with multiple logarithms <small>9CY</small></li> </ol>
<b>3.5:</b> Exponential Growth and Decay; Modeling Data	<ol style="list-style-type: none"> <li>Exponential growth and decay: word problems <small>7SH</small></li> </ol>

# Chapter 4

## Trigonometric Functions

Textbook section	IXL skills
<b>4.1:</b> Angles and Radian Measure	<ol style="list-style-type: none"> <li>1. Convert between radians and degrees KEV</li> <li>2. Graphs of angles PSG</li> <li>3. Radians and arc length HVD</li> <li>4. Quadrants CTR</li> <li>5. Coterminal angles 7CV</li> </ol>
<b>4.2:</b> Trigonometric Functions: The Unit Circle	<ol style="list-style-type: none"> <li>1. Find trigonometric ratios using the unit circle BEM</li> </ol>
<b>4.3:</b> Right Triangle Trigonometry	<p><b>Trigonometric ratios</b></p> <ol style="list-style-type: none"> <li>1. Find trigonometric ratios using right triangles L6Y</li> <li>2. Find trigonometric ratios of special angles DPR</li> </ol> <p><b>Find side lengths and angle measures</b></p> <ol style="list-style-type: none"> <li>3. Trigonometric ratios: find a side length 62D</li> <li>4. Trigonometric ratios: find an angle measure BFU</li> </ol>
<b>4.4:</b> Trigonometric Function of Any Angle	<ol style="list-style-type: none"> <li>1. Find trigonometric ratios using reference angles 9QB</li> <li>2. Reference angles BRP</li> </ol>
<b>4.5:</b> Graphs of Sine and Cosine Function	<p><b>Sine function</b></p> <ol style="list-style-type: none"> <li>1. Find properties of sine functions NVY</li> <li>2. Graph sine functions HP2</li> <li>3. Write equations of sine functions from graphs TJH</li> <li>4. Write equations of sine functions using properties SMV</li> <li>5. Graph translations of sine functions 6PG</li> </ol> <p><b>Cosine function</b></p> <ol style="list-style-type: none"> <li>6. Find properties of cosine functions JZV</li> <li>7. Graph cosine functions HE5</li> </ol>

8. Write equations of cosine functions from graphs 7MS
9. Write equations of cosine functions using properties KVG
10. Graph translations of cosine functions RGG

**Mixed review**

11. Graph sine and cosine functions C8N
12. Graph translations of sine and cosine functions NVC

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**4.6:** Graphs of Other Trigonometric Functions

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**4.7:** Inverse Trigonometric Functions

1. Inverses of trigonometric functions FUL

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**4.8:** Applications of Trigonometric Functions

1. Solve a right triangle ET7
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# Chapter 5

## Analytic Trigonometry

Textbook section	IXL skills
<b>5.1:</b> Verifying Trigonometric Identities	<ol style="list-style-type: none"><li>1. Symmetry and periodicity of trigonometric functions FSJ</li><li>2. Trigonometric identities I WHX</li><li>3. Trigonometric identities II 8S8</li></ol>
<b>5.2:</b> Sum and Difference Formulas	
<b>5.3:</b> Double-Angle, Power-Reducing, and Half-Angle Formulas	
<b>5.4:</b> Product-to-Sum and Sum-to-Product Formulas	
<b>5.5:</b> Trigonometric Equations	<ol style="list-style-type: none"><li>1. Solve trigonometric equations DVX</li></ol>

# Chapter 6

## Additional Topics in Trigonometry

Textbook section	IXL skills
<b>6.1:</b> The Law of Sines	1. Law of Sines MXX 2. Area of a triangle: sine formula JU5
<b>6.2:</b> The Law of Cosines	1. Law of Cosines 6MW 2. Solve a triangle 8Y3 3. Area of a triangle: Heron's formula CHZ
<b>6.3:</b> Polar Coordinates	
<b>6.4:</b> Graphs of Polar Equations	1. Match polar equations and graphs 35P
<b>6.5:</b> Complex Numbers in Polar Form; DeMoivre's Theorem	<b>Graphs of complex numbers</b> 1. Introduction to the complex plane J8S 2. Graph complex numbers ABL  <b>Absolute value in the complex plane</b> 3. Absolute value in the complex plane DUF  <b>Complex numbers in polar form</b> 4. Convert complex numbers from rectangular to polar form LCP 5. Convert complex numbers from polar to rectangular form PVD 6. Convert complex numbers between rectangular and polar form JGA
<b>6.6:</b> Vectors	<b>Introduction to vectors</b> 1. Find the magnitude of a vector XV9 2. Find the direction angle of a vector RTR  <b>Component form of a vector</b> 3. Find the component form of a vector from its magnitude and direction angle BSW 4. Find the component form of a vector XLQ

**Vector operations**

5. Add vectors KKG
6. Subtract vectors 64N
7. Multiply a vector by a scalar WNC
8. Find the magnitude of a vector scalar multiple QM6

**Unit vector**

9. Find a unit vector 74T

**Linear combinations**

10. Linear combinations of vectors JGL

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**6.7: The Dot Product**

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# Chapter 7

## Systems of Equations and Inequalities

### Textbook section

### IXL skills

#### 7.1: Systems of Linear Equations in Two Variables

#### Solutions to a system of equations

1. Is  $(x, y)$  a solution to the system of equations? NJP
2. Find the number of solutions to a system of equations P5A

#### Solve by graphing

3. Solve a system of equations by graphing 97U
4. Solve a system of equations by graphing: word problems LXQ

#### Solve by substitution

5. Solve a system of equations using substitution ZPV
6. Solve a system of equations using substitution: word problems DXU

#### Solve by elimination

7. Solve a system of equations using elimination M8G
8. Solve a system of equations using elimination: word problems VFS

#### Also consider

- Classify a system of equations TJD

#### 7.2: Systems of Linear Equations in Three Variables

1. Solve a system of equations in three variables using elimination S2V
2. Determine the number of solutions to a system of equations in three variables ZZQ

#### 7.3: Partial Fractions

#### 7.4: Systems of Nonlinear Equations in Two Variables

1. Solve a nonlinear system of equations GCC

**7.5:** Systems of Inequalities

1. Solve systems of linear inequalities by graphing KS6
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**7.6:** Linear Programming

1. Find the vertices of a solution set KSP
  2. Linear programming VWA
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# Chapter 8

## Matrices and Determinants

Textbook section	IXL skills
<b>8.1:</b> Matrix Solutions to Linear Systems	<ol style="list-style-type: none"> <li>1. Solve a system of equations using augmented matrices DL8</li> <li>2. Solve a system of equations using augmented matrices: word problems 4F9</li> </ol>
<b>8.2:</b> Inconsistent and Dependent Systems and Their Applications	
<b>8.3:</b> Matrix Operations and Their Applications	<p><b>Introduction to matrices</b></p> <ol style="list-style-type: none"> <li>1. Matrix vocabulary 75N</li> <li>2. Matrix operation rules SQR</li> <li>3. Properties of matrices WVY</li> </ol> <p><b>Matrix operations</b></p> <ol style="list-style-type: none"> <li>4. Add and subtract matrices 2SM</li> <li>5. Multiply a matrix by a scalar FJT</li> <li>6. Add and subtract scalar multiples of matrices 9ME</li> <li>7. Multiply two matrices 9EF</li> <li>8. Simplify matrix expressions 8C4</li> </ol> <p><b>Solve matrix equations</b></p> <ol style="list-style-type: none"> <li>9. Solve matrix equations SNU</li> </ol>
<b>8.4:</b> Multiplicative Inverses of Matrices and Matrix Equations	<ol style="list-style-type: none"> <li>1. Is a matrix invertible? 6M6</li> <li>2. Inverse of a 2 x 2 matrix CLV</li> <li>3. Inverse of a 3 x 3 matrix XWL</li> <li>4. Identify inverse matrices 7UH</li> <li>5. Solve matrix equations using inverses 2UD</li> </ol>
<b>8.5:</b> Determinants and Cramer's Rule	<ol style="list-style-type: none"> <li>1. Determinant of a matrix 7X8</li> </ol>

# Chapter 9

## Conic Sections and Analytic Geometry

Textbook section	IXL skills
<b>9.1:</b> The Ellipse	<ol style="list-style-type: none"><li>1. Find properties of ellipses QRV</li><li>2. Write equations of ellipses in standard form 7P6</li></ol>
<b>9.2:</b> The Hyperbola	<ol style="list-style-type: none"><li>1. Find properties of hyperbolas G2L</li><li>2. Write equations of hyperbolas in standard form KBN</li></ol>
<b>9.3:</b> The Parabola	<ol style="list-style-type: none"><li>1. Find properties of parabolas L76</li><li>2. Write equations of parabolas in vertex form PL2</li><li>3. Graph parabolas YPA</li></ol>
<b>9.4:</b> Rotation of Axes	
<b>9.5:</b> Parametric Equations	
<b>9.6:</b> Conic Sections in Polar Coordinates	

# Chapter 10

## Sequences, Induction, and Probability

Textbook section	IXL skills
<b>10.1:</b> Sequences and Summation Notation	<b>Sequences</b> <ol style="list-style-type: none"><li>1. Find terms of a sequence 7W8</li><li>2. Find terms of a recursive sequence VSG</li></ol> <b>Summation notation</b> <ol style="list-style-type: none"><li>3. Introduction to sigma notation FTV</li></ol>
<b>10.2:</b> Arithmetic Sequences	<ol style="list-style-type: none"><li>1. Find terms of an arithmetic sequence C8R</li><li>2. Write a formula for an arithmetic sequence H82</li><li>3. Find the sum of an arithmetic series HM5</li></ol>
<b>10.3:</b> Geometric Sequences and Series	<b>Formulas for sequences</b> <ol style="list-style-type: none"><li>1. Find terms of a geometric sequence BHV</li><li>2. Classify formulas and sequences 2UZ</li><li>3. Write a formula for a geometric sequence Q5V</li></ol> <b>Finite series</b> <ol style="list-style-type: none"><li>4. Identify arithmetic and geometric series LUB</li><li>5. Find the sum of a finite geometric series 7HF</li></ol> <b>Infinite series</b> <ol style="list-style-type: none"><li>6. Find the value of an infinite geometric series SRN</li><li>7. Write a repeating decimal as a fraction 5UC</li></ol>
<b>10.4:</b> Mathematical Induction	
<b>10.5:</b> The Binomial Theorem	<ol style="list-style-type: none"><li>1. Binomial Theorem I K97</li><li>2. Binomial Theorem II 2KV</li><li>3. Pascal's triangle and the Binomial Theorem 9XR</li></ol>
<b>10.6:</b> Counting Principles, Permutations, and Combinations	<ol style="list-style-type: none"><li>1. Counting principle ZUV</li><li>2. Combinations and permutations 7ZS</li></ol>

**10.7: Probability****Introduction to probability**

1. Introduction to probability VGH
2. Calculate probabilities of events 74H

**Two-way frequency tables**

3. Find probabilities using two-way frequency tables JQK
4. Find conditional probabilities using two-way frequency tables Q9J
5. Find probabilities using combinations and permutations PKN

**Independence and conditional probabilities**

6. Find conditional probabilities 6VA
  7. Identify independent events PLB
  8. Independence and conditional probability PS5
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# Chapter 11

## Introduction to Calculus

Textbook section	IXL skills
<b>11.1:</b> Finding Limits Using Tables and Graphs	<ol style="list-style-type: none"> <li>Find limits using graphs BF5</li> <li>Find one-sided limits using graphs L7Q</li> <li>Determine if a limit exists 9YS</li> </ol>
<b>11.2:</b> Finding Limits Using Properties of Limits	<p><b>Limit laws</b></p> <ol style="list-style-type: none"> <li>Find limits using addition, subtraction, and multiplication laws BTG</li> <li>Find limits using the division law MKT</li> <li>Find limits using power and root laws PJD</li> <li>Find limits using limit laws W8J</li> </ol> <p><b>Calculate limits</b></p> <ol style="list-style-type: none"> <li>Find limits of polynomials and rational functions 9BY</li> <li>Find limits involving factorization and rationalization GXB</li> </ol>
<b>11.3:</b> Limits and Continuity	<ol style="list-style-type: none"> <li>Identify graphs of continuous functions 24H</li> <li>Determine continuity using graphs Y7R</li> <li>Determine one-sided continuity using graphs QMX</li> <li>Find and analyze points of discontinuity using graphs S48</li> <li>Determine the continuity of a piecewise function at a point X5C</li> </ol>
<b>11.4:</b> Introduction to Derivatives	<p><b>Rate of change</b></p> <ol style="list-style-type: none"> <li>Average rate of change I P8Z</li> <li>Average rate of change II MYZ</li> <li>Find instantaneous rates of change XZU</li> <li>Velocity as a rate of change E2W</li> </ol> <p><b>Find values of derivatives</b></p> <ol style="list-style-type: none"> <li>Find values of derivatives using limits 9KU</li> </ol>

**Tangent line**

- 6. Find the slope of a tangent line using limits F5K
  - 7. Find equations of tangent lines using limits MBX
-