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	Pre-Calculus 20 Outcomes
Pre-Calculus (P)	
<u>P20.1</u>	Demonstrate understanding of the absolute value of real numbers and equations and functions involving the absolute value of linear and quadratic functions. [C, PS, R, T, V]
<u>P20.2</u>	Expand and demonstrate understanding of radicals with numerical and variable radicands including: • computations • solving equations (limited to square roots and one or two radicals).
	[C, CN, ME, PS, R, T]
<u>P20.3</u>	Expand and demonstrate understanding of rational expressions and equations (up to and including degree 2 numerators and denominators) including: equivalent forms of expressions operations on expressions solving equations that can be simplified to linear or quadratic equations.
	[C, CN, ME, R]
<u>P20.4</u>	Expand and demonstrate understanding of the primary trigonometric ratios including the use of reference angles (0° ≤ θ ≤ 360°) and the determination of exact values for trigonometric ratios. [C,ME,PS,R,T,V]
<u>P20.5</u>	Demonstrate understanding of the cosine law and sine law, including the ambiguous case. [C, CN, PS, R, T]
<u>P20.6</u>	Expand and demonstrate understanding of factoring polynomial expressions including those of the form:
	where a, b, and c are rational numbers. [CN, ME, R]
<u>P20.7</u>	Demonstrate understanding of quadratic functions of the form y=ax ² +bx+c and of their graphs, including: vertex domain and range direction of opening axis of symmetry x - and y-intercepts.
	[CN, PS, R, T, V]
<u>P20.8</u>	Demonstrate understanding of quadratic equations including the solution of: • single variable equations • systems of linear-quadratic and quadratic-quadratic equations in two variables.
	[C, CN, PS, R, T, V]
<u>P20.9</u>	Expand and demonstrate understanding of inequalities including: one-variable quadratic inequalities two-variable linear and quadratic inequalities.
	[C, CN, PS, T, V]
<u>P20.10</u>	Demonstrate understanding of arithmetic and geometric (finite and infinite) sequences and series. [CN, PS, R, T]
<u>P20.11</u>	Demonstrate understanding of reciprocal functions of: linear functions quadratic functions.
	[CN, R, T, V]

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