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Pre-Calculus 30 Outcomes

Pre-Calculus (PC)

PC30.1	Extend understanding of angles to angles in standard position, expressed in degrees and radians. [CN, ME, R, V]
PC30.2	Demonstrate understanding of the unit circle and its relationship to the six trigonometric ratios for any angle in standard position. [CN, ME, PS, R, T, V]
PC30.3	Demonstrate understanding of the graphs of the primary trigonometric functions. [CN, PS, T, V]
PC30.4	Demonstrate understanding of first- and second-degree trigonometric equations. [CN, PS, R, T, V]
PC30.5	Demonstrate understanding of trigonometric identities including: reciprocal identities quotient identities Pythagorean identities sum or difference identities (restricted to sine, cosine, and tangent) double-angle identities (restricted to sine, cosine, and tangent) [R, T, V]
PC30.6	Demonstrate an understanding of operations on, and compositions of, functions. [CN, R, T, V]
PC30.7	Extend understanding of transformations to include functions (given in equation or graph form) in general, including horizontal and vertical translations, and horizontal and vertical stretches. [C, CN, R, V]
PC30.8	Demonstrate understanding of functions, relations, inverses and their related equations resulting from reflections through the: x-axis y-axis line math_en/pre_calc_30/y_eq_x.PNG. [C, CN, R, V]
PC30.9	Demonstrate an understanding of logarithms including: evaluating logarithms relating logarithms to exponents deriving laws of logarithms solving equations graphing. [C, CN, ME, PS, R, T, V]
PC30.10	Demonstrate understanding of polynomials and polynomial functions of degree greater than 2 (limited to polynomials of degree ≤ 5 with integral coefficients). [C, CN, ME, T, V]
PC30.11	Demonstrate understanding of radical and rational functions with restrictions on the domain. [CN, R, T, V]
PC30.12	Demonstrate understanding of permutations, including the fundamental counting principle. [C, PS, R, V]
PC30.13	PC30.13 Demonstrate understanding of combinations of elements, including the application to the binomial theorem. [C, CN, PS, R, V]

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