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Trigonometric Identities

Quotient Identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

Reciprocal Identities

$$\cot \theta = \frac{1}{\tan \theta}$$

$$\csc \theta = \frac{1}{\sin \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

Pythagorean Identities

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

Sum Identities Addition Formulas

$$\sin(a+b) = \sin a \cos b + \cos a \sin b$$

$$\cos(a+b) = \cos a \cos b - \sin a \sin b$$

$$\tan(a+b) = \frac{\tan a + \tan b}{1 - \tan a \tan b}$$

Difference Identities Subtraction Formulas

$$\sin(a-b) = \sin a \cos b - \cos a \sin b$$

$$\cos(a-b) = \cos a \cos b + \sin a \sin b$$

$$\tan(a-b) = \frac{\tan a - \tan b}{1 + \tan a \tan b}$$

Double Angle Formulas

$$\sin 2a = 2 \sin a \cos a$$

$$\cos 2a = \cos^2 a - \sin^2 a$$

$$= 2 \cos^2 a - 1$$

$$= 1 - 2 \sin^2 a$$

$$\tan 2a = \frac{2 \tan a}{1 - \tan^2 a}$$

Co-function Identities

$$\cos\left(\frac{\pi}{2} - \theta\right) = \sin \theta$$

$$\sin\left(\frac{\pi}{2} - \theta\right) = \cos \theta$$

$$\cot\left(\frac{\pi}{2} - \theta\right) = \tan \theta$$

$$\tan\left(\frac{\pi}{2} - \theta\right) = \cot \theta$$

$$\csc\left(\frac{\pi}{2} - \theta\right) = \sec \theta$$

$$\sec\left(\frac{\pi}{2} - \theta\right) = \csc \theta$$

Even-Odd Identities

$$\sin(-\theta) = -\sin \theta$$

$$\cos(-\theta) = \cos \theta$$

$$\tan(-\theta) = -\tan \theta$$

$$\csc(-\theta) = -\csc \theta$$

$$\sec(-\theta) = \sec \theta$$

$$\cot(-\theta) = -\cot \theta$$

Half-Angle Formulas

$$\sin\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1 - \cos \theta}{2}}$$

$$\cos\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1 + \cos \theta}{2}}$$

$$\tan\left(\frac{\theta}{2}\right) = \frac{1 - \cos \theta}{\sin \theta}$$

$$= \frac{\sin \theta}{1 + \cos \theta}$$

$$= \pm \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}}$$

Sum-to-Product Formulas

$$\sin a + \sin b = 2 \sin\left(\frac{a+b}{2}\right) \cos\left(\frac{a-b}{2}\right)$$

$$\sin a - \sin b = 2 \sin\left(\frac{a-b}{2}\right) \cos\left(\frac{a+b}{2}\right)$$

$$\cos a + \cos b = 2 \cos\left(\frac{a+b}{2}\right) \cos\left(\frac{a-b}{2}\right)$$

$$\cos a - \cos b = -2 \sin\left(\frac{a+b}{2}\right) \sin\left(\frac{a-b}{2}\right)$$

Product-to-Sum Formulas

$$\sin a \sin b = \frac{1}{2} [\cos(a-b) - \cos(a+b)]$$

$$\cos a \cos b = \frac{1}{2} [\cos(a-b) + \cos(a+b)]$$

$$\sin a \cos b = \frac{1}{2} [\sin(a+b) + \sin(a-b)]$$

$$\cos a \sin b = \frac{1}{2} [\sin(a+b) - \sin(a-b)]$$



HONORS & AP Pre-Calculus HONORS & AP

SYLLABUS

Pre-Calculus Course# 1202340 Course Length 1-Year Course Type Core Course Status State Board Approved

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Let No One despise your youth, but be an example in words, in conduct, in love, in spirit, in faith, and in purity.



The Mission: To help create a Globally Responsible Citizen and a Great Ambassador for America. To assist you learn how to develop deeper understanding of Pre-Calculus and its real-life application

I. Course Description:

The Pre-calculus is the study of mathematics that focuses on the development of the students' ability to understand and apply the study of functions and advanced mathematical concepts to solve problems. This rigorous course is used in many real life situations to help solve problems. This course will help you to better understand physical relationships that exist within our world as well as strengthen your reasoning and problem solving skills. This course will raise awareness of how mathematics has influenced cultures and perspectives of societies internationally through history. Each student will gain an appreciation for the international dimensions and multiculturalism of the subject.

A function is a rule that determines a specific unique outcome given a particular input (or set of inputs). A function is mathematical when its rule is defined in mathematical terms. When mathematical functions are used by business people, scientists, engineers, designers, economists, educators, psychologists, architects, etc. to model situations in the "real world" it is usually because they seek the answer some variation of the question "What if?"

The main objective of this course is to show you how to use functions to simplify real world situations, putting you in a position from where you can pose "What if?" questions and receive reasonable answers. A second objective of this course is to prepare you to take calculus and IB/AP advanced math next year. A basic understanding of algebra will be critical to

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