Welcome to **12th Grade Math: Precalculus and ACT Prep**. I look forward to facilitating your learning experience.

Precalculus begins with a review of basic trigonometry then progresses to advanced topics including functions, identities, and trigonometric equations. Analytical geometry topics include a logical approach to the study of lines, conics, quadric surfaces, polar coordinates, and parametric equations.

ACT Prep builds confidence through preparation! Problems are broken down into easy-to-navigate sections. Students will learn basic approaches for each section of the test using techniques such as process of elimination POE and personal order of difficulty POOD. Examples and practice questions for English, Mathematics, Reading, Science, and Writing are incorporated into drills, review lessons, and practice tests.

INSTRUCTOR PROFESSIONAL AND EDUCATIONAL EXPERIENCE:

A native Detroiter, I graduated from Cass Technical High School ❤ and after graduating from Michigan State University with a Bachelor of Science, I worked as a Project Engineering Manager at General Motors Corporation. Later I received an MBA and Doctorate degree from the University of Phoenix Online. I eventually switched careers and began teaching Business, Mathematics, Leadership, and ACT prep for Wayne County Community College, Davenport University, Ashford University Online, Princeton Review, and now Westside Christian Academy.

COURSE INFORMATION

REQUIRED TEXTS:

A Beka Book. (2013). *Precalculus with Trigonometry and Analytical Geometry.* Pensacola, Florida.
This texts offers colorful graphs in one, two, and three dimensions illustrate the concepts and provide a frame of reference for discussion, while helpful tips and example problems show step-by-step solution to help students understand how to solve problems.

COURSE TOPICS:

- Basic Concepts
- Trigonometry Applied to Right Triangles
- Angles on the Cartesian Plane
- Trigonometric Functions of Any Angle
- Graphing the Trigonometric Functions
- Trigonometric Identities and Formulas
- Trigonometric Equations and Inverse Trigonometric Functions
- Solving Oblique Triangles
- Complex Numbers and De Moivre's Theorem
- Analytic Geometry Concepts
- Distance, Slope, and the Straight Line
- The Conic Sections
- Planes and Surfaces in Three Dimensions
- Polar Coordinates
- Equations Representing Empirical Data
- Selected Calculus Topics

POLICIES AND PROCEDURES:

- Good attendance counts favorably towards your participation grade. Proactively make arrangements for missed work. I provide make-up assignments, extra credit, etc. at my discretion. I mark down late assignments by one letter grade, without an excused absence. Do your best to arrive on time.
- Please check your grades regularly via your Blackbaud.com Account.
- If WCA closes due to inclement weather, scheduled assignments and/or exams will resume the following class session.
- I am excited about your future as a young adult and your ability to manage conflict effectively. You are not allowed to use profanity, steal, hit or kick others, or show PDAs. I expect you to exemplify Christian character. HINT: Be the first person to apologize and learn to let things go.
- I will create a family atmosphere of learning and growth. I invite parents to volunteer to proctor, read, and assist with field trips. I will not allow name-calling. I expect you to take responsibility for your own actions and treat young men as brothers in Christ and young women as sisters in Christ.
- I love teaching and enjoy discussing Math. We will have lots of fun learning Math concepts. I do not accept backtalk. I ask that you trust me enough to know that whatever I ask is for your best interest.
- I respect everyone and their opinion. We can all agree to disagree. My goal is to help you refute barriers or stereotypes you encounter. I have VERY high expectations of you. You are not allowed to use the words, "I can't…" INSTEAD "I look forward to you showing me how to…" Any student found cheating on an examination or assignment will receive an F.
- I will allow you to whisper. However, you are not allowed to be loud or disruptive and should remain seated unless otherwise directed.
- I am available at the listed email address. I am also available before and after class. PLEASE feel free to contact me with any comments, questions, or suggestions regarding this course and/or the course material.
- I take your learning and well-being very seriously. If you feel hurt or threatened please report it to myself or another school official. We can help you avoid escalating an incident or retaliating and hurting yourself and/or others.
- I expect a peaceful learning environment AT ALL TIMES. I expect students to abide by WCA's code of conduct. Use of cell phones, MP3s, etc. is prohibited!!! We are all ONE team heading towards the same goal of learning and growing together!!!

Parent Signature	Date	Student Signature	Date

Grading/Assessment

Exams	50 Points
Math Journal, Notes & Vision Board	25 Points
Quizzes and In-Class Assignments	10 Points
Participation Grade	5 Points
Homework Assignments	2 Points

REWARDS: 👍	PENALTIES: 👎
Snacks	Verbal Warning
Supplies	Deduct Points
Homework Pass	Student Calls Parent
Extra Credit	Referral
Pizza Party	Suspension

Please Read And Be Prepared To Discuss Assigned Chapters As Directed Each Week.
Also Be Prepared to Take Notes, Which Can Be Used During Quizzes and In-Class Assignments.

#Entrepreneurs

#GivingBack!

#FamilyChurchCommunity

#KingdomMillionaires! Math

#Jesus SWAG

#CHAMPS

CHRISTIAN HIP HOP
ADVISORY
EXTREME WORSHIP

KEEP CALM AND LOVE MATH

WC
A
WESTSIDE CHRISTIAN ACADEMY

KEEP CALM AND WATCH GOD MOVE #WAITING

#PrayerFocus:
- Confess The Word (Romans 10:8)
- 10 Times Better Living God's Way (Daniel 1:20)
- Peace in Home (Acts 16:31, Isaiah 26:3)
- Commitment to Education and Study (2 Timothy 2:15, John 14:26)
- Seek God for Purpose (Romans 8:28)
- Avoid Drugs and Gang Violence (1 John 2:15-17)
- Save Sex for Marriage (1 Corinthians 6:20; 1 Thessalonians 4:3-4)
- Live Prosperous and Healthy (3 John 2)
- Friendship, Love and Support (Proverbs 18:24)

$2 > ^-3$

$0.999... = 1$

$\pi \approx 3.14$

$\sqrt{2}$

$2 \cdot 2 \cdot 3$

5_2

$(1-2)+3$

$5(2+2)$

$101_2 = 5_{10}$

$\sqrt{-1}$ ❤