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Algebra I (A)
Course Syllabus
Patricia Pearson

Our Mission: "To Restore All Things In Christ" Pope Pius X

St. Pius X High School builds a foundation in faith, academic excellence, and lifelong learning, partnering with families to enhance Catholic morals and authentic truth for the greater glory of God.

Course Texts: Various resources - No text (Semester 1)
Pearson, Prentice Hall Mathematics Algebra I (Semester 2)

Supplies: text, notebook, 3-ring binder with dividers, loose leaf, pencil, marking pen, highlighter, ruler, graph paper, calculator, and a box of Kleenex.

Semester 1

Goals and Objectives: The goal of this semester is to provide students with an introduction to traditional Algebra I concepts using a continued review of basic math skills .

Topics:

- Decimal rounding
- Decimal operations
- Fraction operations
- Fraction Simplification
- Decimal, fraction, and percents equivalencies
- Signed-number operations
- Coordinate System
- Problem Solving - add/subtract
- Exponents
- Geometry: perimeter, area, circumference
    - Rectangle, triangle, circle

Essential Skills:

1. **Operate with fractions and decimals.**
2. **Operate with signed numbers.**
3. **Solve simple verbal problems.**
4. **Solve one and two step linear equations.**
5. **Apply rules for powers.**

Semester 2

Goals and Objectives: One of the goals of this course is to learn to communicate about algebra by reading and writing information about it. The student will also learn to solve systematically, problems of the types listed below as topics. Algebraic and arithmetic skills will be applied to real-life algebra models as students learn to approach word problems with logical problem-solving strategies.

Topics:

- **Numbers, operations, variables and exponents**
- **Equations and Inequalities**
- **Verbal Models and Algebraic**
- **Models for Problem-Solving Strategies**
- **Matrices**
- **Real Numbers and their Properties**
- **Solving Linear Equations**
- **Graphing Linear Equations**
- **Slope of a Line**
- **Absolute Value Equations and Graphs**
- **Writing linear equations**
- **Solving and graphing linear inequalities**
- **Solving systems of linear equations**
- **Powers and Exponents**
- **Quadratic Equations and their graphs**
- **Polynomials**
- **Factoring**
- **Ratio and Proportion**
- **Simplifying radicals**
- **Solving systems of linear equations**
- **Exponential Equations and Graphs**

Essential Skills:

1. **Solve linear equations and inequalities.**
2. **Graph linear equations and inequalities.**
3. **Write linear equations.**
4. **Solve systems of linear equations.**
5. **Apply rules for powers.**
6. **Factor polynomials**
7. **Solve quadratic equations.**
8. **Solve ratios and proportions.**
9. **Graph exponential equations.**
10. **Use problem solving strategies to approach word problems.**

Rules and Procedures:

- You are to come to class prepared with text, paper, pencil, and agenda. YOUR AGENDA IS YOUR PASS TO LEAVE THE ROOM SO PLEASE HAVE IT WITH YOU!

- Be in your seat when the bell rings otherwise you are tardy without a pass.

- Absolutely no food or drink (other than bottled water) will be allowed in class.

- It is your responsibility to check what was missed during an absence and here's how to find out:
  Email me and I can send the assignment
  Ask me the next day.
  Ask a friend

- You have a day to make up work for every day missed. I will adhere to the school handbook policy on absences. You can have 10 absences during the year and have make up privileges but on the 11th absence you will receive a 0 for any work done during your absence.

- Notes will be taken in a spiral notebook. This will be graded at least once each semester. You may take notes in pen.
- Assignments will be given daily and completed on loose leaf and kept in a homework section of a 3-ring binder. Homework will be randomly collected each week. You will loose a point if it is late and will be worth 0 after three days.
- Do assigned work neatly and in pencil. I will not accept pen!

Absolutely No Cell Phone, Apple Watch, or airpods usage!

- ✓ No checking for texts or sending texts.
- ✓ No Internet usage.
- ✓ No phone calls.
- ✓ No calculator function allowed.
- ✓ No quizlet studying.
- ✓ **Leave cell phone in your locker**

Code of Behavior……

Be respectful to your fellow classmates and to your teacher. There will be no tolerance for behavior that in any way disrespects the dignity of any person or their property in this classroom. Please refrain from talking during lecture or when someone is speaking to me or the class, stay in your seat, keep your hands to yourself.

Grading and Evaluation…….

85% of the semester grade will be the average of the tests, major quizzes, homework, and homework quizzes. The final exam will comprise the remaining 15% of the semester grade.

Points awarded…….

Homework → 5 points per collected assignment (usually once a week)
Quizzes → 15-20 points (typically mid chapter)
Tests → 40-60 points (one per chapter)
Notebook → 50 Points (typically once a semester)

To be successful in this course……..

1. Take thorough notes.
2. Do assigned homework.
3. Ask questions and get help.
4. Study early when preparing for a test. Don't cram the night before.

The following scale will be used to calculate your grade for the course.

100 - 94 A
93 - 90 A-
89 - 87 B+
86 - 83 B
82 - 80 B-
79 – 77 C+
76 – 73 C
72 – 70 C-
69 – 67 D+
66 – 63 D
62 – 60 D-
59 – 0 F

Participation will be expected and will be used in determining borderline grades! Have a great year!!

Parent Signature: _____