

MEET 1

1A Pre-algebra Topics

- Fractions to add and express as the quotient of two relatively prime integers
- Complex fractions and continued fractions
- Decimals, repeating decimals
- Percentage, interest, and discount
- Least common multiple, greatest common divisor
- Number bases; change of base

1B Angles and Special Triangles

- The Theorem of Pythagoras; familiar Pythagorean triples
- Complementary, supplementary, and vertical angles
- Interior and exterior angles for triangles and polygons
- Angles formed by transversals cutting parallel lines
- Properties of isosceles and equilateral triangles
- Relationships in 30° - 60° - 90° and 45° - 45° - 90° triangles

1C Elementary Trigonometry

- Definitions and solution of right triangles
- Elementary identities
- Radian measure and graphs of elementary functions
- Trigonometric functions of multiples of $\pi/6$, $\pi/4$, $\pi/3$, $\pi/2$.

1D Roots of Quadratic and Polynomial Equations

- Solution of quadratic equations by factoring, by completing the square, by formula
- Complex roots of quadratic equations; the discriminant and the character of the roots
- Relations between roots and coefficients
- Synthetic Division
- Function notation