

GRADES 9-12


ADULT EDUCATION

## CLEP College Level Test Prep

College Level Examination Program or CLEP test provides students of any age with the opportunity to demonstrate college-level achievement through a program of exams in undergraduate college courses. There are 2,900 colleges that grant credit and/or advanced standing for CLEP tests.

## CLEP College Math

(1) Sets
(1A) Union and Intersection
(IB) Subsets
(1C) Venn Diagrams
(2) Logic
(2A) Truth Tables
(2B) Conjunctions, Disjunctions, Implications \& Negations
(2C) Conditional Statements
(2D) Necessary \& Sufficient Conditions
(2E) Converse, Inverse, \& Contrapositive
(2F) Hypotheses, Conclusions, \& Counterexamples
(3) Real Numbers
(3A) Prime \& Composite Numbers
(3B) Odd \& Even Numbers
(3C) Factors \& Divisibility
(3D) Rational \& Irrational Numbers
(3E) Absolute Value \& Order
(4) Functions \& Graphs
(4A) Properties \& Graphs of Functions
(4B) Domain \& Range
(4C) Composition of Functions \& Inverse Functions
(4D) Solving Quadratic Equations
(4E) Remainder Theorem
(5) Probability \& Statistics
(5A) Counting Problems, Including Permutations \& Combinations
(5B) Computation of Probabilities of Simple \& Compound Events
(5C) Simple Conditional Probability
(5D) Mean \& Median
(6) Additional Topics From Algebra \& Geometry
(6A) Complex Numbers
(6B) Logarithms \& Exponents
(6C) Applications from Algebra \& Geometry
(6D) Properties of Triangles \& Circles
(6E) The Pythagorean Theorem
(6F) Parallel and Perpendicular Lines
(6G) Problem Solving Applications
TEST

## CLEP College Algebra

(1) Algebraic Operations
(1A) Combining Algebraic Expressions
Signed Numbers
Order of Operations
Variables
Expressions
(1B) Factoring
Common Monomial Factors
Common Binomial Factors
Difference of Perfect Squares
Factoring Cubes
Factor by Grouping
Factoring Quadratics
Simplifying Algebraic Fractions
Operations with Powers and Root
(IC) Simplifying Algebraic Fractions
(1D) Operating with Powers and Roots
Multiplication
Division
Power of a Power
Roots and Radicals
Negative Exponents
Fractional Exponents
Challenge
Drill and Practice
(2) Equations, Inequalities \& their Graphs
(2A) Linear Equations and Inequalities Open Sentences
Graphs
Slope
Equations
Systems of Linear Equations
Problem Solving
Inequalities
Functions
Linear Functions
Relations
(2B) Quadratic Equations
How to Complete the Square
Quadratic Formula
What is the Discriminant?
Quadratic Equations
Graphing
Analyze Quadratic Functions
Sum and Product
Problem Solving
TEST

Trigonometry
(Part 1, Menu \#2)
Length of an Arc
Conversion Factors
Angular Velocity
Linear Velocity
Area of Circular Sector
Area of Circular Segment
Vocabulary
Test (Menu \#2)

## Trigonometry

(Part 2, Menu \#1)
Trig Identities
Trig Proofs

Trig Proofs
Double Angle Formulas
Half Angle Formulas
Sum \& Difference Formulas
Expressions \& Equations
Test (Menu \#1)

Trigonometry
(Part 2, Menu \#2)
Solving Right Triangles
Law of Cosines
Law of Sines
Area of a Triangle
Vectors
Real World Problems
Polar Coordinates
DeMoivre's Theorem
Test (Menu \#2)

## Pre-Calculus

College Algebra \& Trig

## Algebraic Operations

Equations, Inequalities and their Graphs
Algebraic, Exponential, and Log Functions and their Graphs
Miscellaneous Topics

