

16. Learn about exponents and logarithms and understand how to simplify, add, subtract, and multiply exponential and logarithmic functions.
17. Study matrices and determinants and learn how to perform matrix operations such as addition, subtraction, and multiplication.
18. Understand the concept of complex numbers and learn how to add, subtract, multiply, and divide complex numbers in standard form.
19. Learn about sequences and series and understand how to find the n th term and the sum of a finite or infinite series.
20. Study conic sections and learn how to graph parabolas, circles, ellipses, and hyperbolas in standard form.
21. Understand the concept of binomial theorem and learn how to expand binomial expressions using the binomial theorem.
22. Learn about permutations and combinations and understand how to use the formulas for nPr and nCr to solve counting problems.
23. Study inequalities and learn how to graph linear and nonlinear inequalities on a number line and on a coordinate plane.
24. Understand the concept of absolute value and learn how to solve absolute value equations and inequalities.
25. Learn about logarithmic and exponential equations and understand how to solve them using properties of logarithms and exponents.
26. Study mathematical induction and learn how to prove statements using the principle of mathematical induction.
27. Learn about partial fractions and understand how to decompose a rational function into a sum of simpler fractions.
28. Study complex integration and learn how to evaluate real and complex integrals using techniques such as substitution, integration by parts, and partial fractions.
29. Understand the concept of limits and learn how to evaluate limits of functions using algebraic and graphical methods.
30. Learn about partial derivatives and gradient vectors and understand how to use them to find the rate of change of a function in a specific direction.