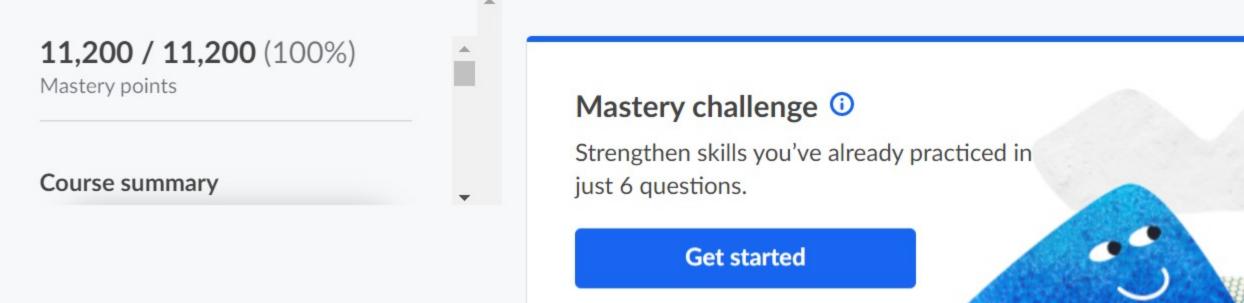
600/600 Mastery points

1700/1700 Mastery points

Math

Precalculus

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Trigonometry

Vectors

2000/2000 Mastery points Complex numbers What are the imaginary numbers? Multiplying complex numbers What are the complex numbers? Complex conjugates and dividing complex numbers The complex plane Identities with complex numbers Adding and subtracting complex numbers Absolute value and angle of complex numbers Distance and midpoint of complex numbers Polar form of complex numbers Multiplying and dividing complex numbers in polar form

800/800 Mastery points **Polynomials** Adding and subtracting polynomials: two variables Polynomial division The binomial theorem Solving equations by graphing The fundamental theorem of algebra

700/700 Mastery points **Composite functions** Composing functions Invertible functions Modeling with composite functions Verifying inverse functions by composition

Inverse trigonometric functions Trigonometric identities Sinusoidal equations Angle addition identities Sinusoidal models Using trigonometric identities 1400/1400 Mastery points

Vectors introduction Unit vectors Magnitude of vectors Magnitude and direction form of vectors Scalar multiplication Component form of vectors Adding vectors in magnitude and direction form Vector addition and subtraction Vectors word problems Combined vector operations

1700/1700 Mastery points **Matrices** Properties of matrix multiplication Introduction to matrices Representing linear systems of equations with augmented m... Matrices as transformations Elementary matrix row operations The determinant of a 2x2 matrix Row-echelon form and Gaussian elimination Introduction to matrix inverses Adding and subtracting matrices Finding the inverse of a matrix using its determinant Multiplying matrices by scalars Practice finding the inverses of 2x2 matrices Properties of matrix addition & scalar multiplication Solving equations with inverse matrices Multiplying matrices by matrices Model real-world situations with matrices

1500/1500 Mastery points Series Geometric series (with summation notation) Arithmetic sequences Geometric sequences Arithmetic series Geometric series

Conic sections Focus and directrix of a parabola Introduction to conic sections The features of a circle Introduction to hyperbolas Standard equation of a circle Foci of a hyperbola Expanded equation of a circle Hyperbolas not centered at the origin Center and radii of an ellipse Identifying conic sections from their equations Foci of an ellipse Challenging conic section problems (IIT JEE)

800/800 Mastery points **Probability and combinatorics** Basic probability Dependent events Venn diagrams and the addition rule Permutations Compound probability of independent events using diagrams Combinations Compound probability of independent events using the multi... Probability using combinatorics

Course challenge: 100% 2 months ago Amazing work! Looks like you really know your stuff! Take Course challenge again

Community questions

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