Mindluster Platform

About the course Basic Mathematics by Serge Lang

Basic Mathematics, by Serge Lang, is a comprehensive book for high school or college students. It offers a firm foundation in elementary principles of mathematics and thereby acts as a facilitator into calculus, linear algebra and other more innovative topics.

Mathematics Category's Courses

Course Lesson(74)

Lesson 1 : **Introduction Basic Mathematics**

Lesson 2 : **1 1 Integers Basic Mathematics**

Lesson 3 : **1 2 Rules for Addition Basic Mathematics**

Lesson 4 : **1 3 Rules for Multiplication Basic Mathematics**

Lesson 5 : **1 4 Even and Odd Integers Divisibility Basic Mathematics**

Lesson 6 : **1 5 Rationals Basic Mathematics**

Lesson 7 : **1 6 Multiplicative inverses Basic Mathematics**

Lesson 8 : **2 1 Equations in two unknowns Basic Mathematics**

Lesson 9 : **2 2 Equations in three unknowns Basic Mathematics**

Lesson 10 : **3 1 Real numbers Addition and subtraction Basic Mathematics**

Lesson 11 : **3 2 Real numbers Positivity Basic Mathematics**

Lesson 12 : **3 3 Powers and roots Basic Mathematics**

Lesson 13 : **3 4 Inequalities Basic Mathematics**

Lesson 14 : **4 Quadratic Equations Basic Mathematics**

Lesson 15 : **Logic 1 On reading books Basic Mathematics**

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Lesson 17 : **Logic 3 Sets and Elements Basic Mathematics**

Lesson 18 : **Logic 4 Indices Basic Mathematics**

Lesson 19 : **Logic 5 Notation Basic Mathematics**

Lesson 20 : **Part 2 Intuitive Geometry Basic Mathematics**

Lesson 21 : **5 1 Distance Basic Mathematics**

Lesson 22 : **5 2 Angles Basic Mathematics**

Lesson 23 : **5 3 Pythagoras Theorem Basic Mathematics**

Lesson 24 : **6 1 Some Standard Mappings of the Plane Basic Mathematics**

Lesson 25 : **6 2 Isometry Basic Mathematics**

Lesson 26 : **6 3 Composition of Isometries Basic Mathematics**

Lesson 27 : **6 4 Inverse of Isometries Basic Mathematics**

Lesson 28 : **6 5 Characterization of Isometries Basic Mathematics**

Lesson 29 : **6 6 Congruence Basic Mathematics**

Lesson 30 : **7 1 Area of a disc of radius r Basic Mathematics**

Lesson 31 : **7 2 Circumference of a Circle of Radius r Basic Mathematics**

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Lesson 33 : **8 2 Distance Between Points Basic Mathematics**

Lesson 34 : **8 3 Equation of a Circle Basic Mathematics**

Lesson 35 : **8 4 Rational Points on a Circle Basic Mathematics**

Lesson 36 : **9 1 Dilations and Reflections Basic Mathematics**

Lesson 37 : **10 1 Segments Basic Mathematics**

Lesson 38 : **10 Rays Basic Mathematics**

Lesson 39 : **10 3 Lines Basic Mathematics**

Lesson 40 : **10 4 Ordinary Equation of the Line Basic Mathematics**

Lesson 41 : **11 1 Radian Measure Basic Mathematics**

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Lesson 43 : **11 3 The Graphs Basic Mathematics**

Lesson 44 : **11 4 Tangent Basic Mathematics**

Lesson 45 : **11 5 Addition Formula Basic Mathematics**

Lesson 46 : **11 6 Rotation Basic Mathematics**

Lesson 47 : **12 1 The Straight Line Again Basic Mathematics**

Lesson 48 : **12 2 The Parabola Basic Mathematics**

Lesson 49 : **12 3 The Ellipse Basic Mathematics**

Lesson 50 : **12 4 The Hyperbola Basic Mathematics**

Lesson 51 : **12 5 Rotation of Hyperbolas Basic Mathematics**

Lesson 52 : **13 1 Definition of a Function Basic Mathematics**

Lesson 53 : **13 2 Polynomial Functions 1 2 Basic Mathematics**

Lesson 54 : **13 2 Polynomial Functions 2 2 Basic Mathematics**

Lesson 55 : **13 3 Graphs of Functions Basic Mathematics**

Lesson 56 : **13 4 Exponential Function Basic Mathematics**

Lesson 57 : **13 5 Logarithms Basic Mathematics**

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Lesson 59 : **14 2 Formalism of Mappings Basic Mathematics**

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Lesson 61 : **14 3 Permutations 2 3 Basic Mathematics**

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Lesson 64 : **15 2 Polar Form Basic Mathematics**

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Lesson 67 : **16 3 Geometric Series Basic Mathematics**

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Lesson 69 : **17 2 Determinants of Order 2 Basic Mathematics**

Lesson 70 : **17 3 Properties of 2x2 Determinants Basic Mathematics**

Lesson 71 : **17 4 Determinants of Order 3 Basic Mathematics**

Lesson 72 : **17 5 Properties of 3x3 Determinants Basic Mathematics**

Lesson 73 : **17 6 Cramer s Rule Basic Mathematics**

Lesson 74 : **Review Basic Mathematics**

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