Record Nr. UNINA9910824870803321 Autore Barry Patrick D. Titolo Geometry with trigonometry / / Patrick D. Barry Pubbl/distr/stampa Cambridge, England:,: Woodhead Publishing,, 2016 ©2016 **ISBN** 0-12-805067-5 Edizione [Second edition.] Descrizione fisica 1 online resource (282 p.) Disciplina 516 Soggetti Geometry - Study and teaching Trigonometry Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Front Cover: Geometry with Trigonometry: Copyright Nota di contenuto ; Dedication : Contents : About the author : Preface : Glossary : 1. Preliminaries : 1.1 Historical note; 1.2 Note on deductive reasoning; 1.3 Euclid's the elements; 1.4 Eur approach; 1.5 Revision of geometrical concepts; 1.6 Pre-requisites ; 2. Basic shapes of geometry 2.1 Lines, segments and half-lines 2.2 Open and closed half-planes: 2.3 Angle-supports, interior and exterior regions, angles; 2.4 Triangles and convex quadrilaterals; Exercises ; 3. Distance; degree-measure of an angle; 3.1 Distance; 3.2 Midpoints; 3.3 A ratio result; 3.4 The cross-bar theorem; 3.5 Degreemeasure of angles; 3.6 Mid-line of an angle-support; 3.7 Degreemeasure of reflex angles; Exercises : 4. Congruence of triangles: parallel lines: 4.1 Principles of congruence 4.2 Alternate angles, parallel lines 4.3 Properties of triangles and halfplanes; Exercises ; 5. The parallel axiom; euclidean geometry; 5.1 The parallel axiom; 5.2 Parallelograms; 5.3 Ratio results for triangles; 5.4 Pythagoras' theorem, c. 550b.c.; 5.5 Mid-lines and triangles; 5.6 Area of triangles, and convex quadrilaterals and polygons; Exercises : 6. Cartesian coordinates; applications; 6.1 Frame of reference, cartesian

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