

CAMBRIDGE

Cambridge University Press
978-1-316-61267-5 — Elementary Co-ordinate Geometry
A. S. Ramsey
Frontmatter
[More Information](#)

**ELEMENTARY CO-ORDINATE
GEOMETRY**

ELEMENTARY CO-ORDINATE
GEOMETRY

A book for beginners

By

A. S. RAMSEY, M.A.

CAMBRIDGE
AT THE UNIVERSITY PRESS
1964

Cambridge University Press
978-1-316-61267-5 — Elementary Co-ordinate Geometry
A. S. Ramsey
Frontmatter
[More Information](#)

CAMBRIDGE UNIVERSITY PRESS

University Printing House, Cambridge CB2 8BS, United Kingdom

Cambridge University Press is part of the University of Cambridge.

It furthers the University's mission by disseminating knowledge in the pursuit of education, learning and research at the highest international levels of excellence.

www.cambridge.org

Information on this title: www.cambridge.org/9781316612675

© Cambridge University Press 1964

This publication is in copyright. Subject to statutory exception and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press.

First edition 1932

Reprinted with corrections 1935, 1942, 1944, 1945

Second edition 1946

Reprinted 1948, 1950, 1956, 1960, 1964

First paperback edition 2016

A catalogue record for this publication is available from the British Library

ISBN 978-1-316-61267-5 Paperback

Cambridge University Press has no responsibility for the persistence or accuracy of URLs for external or third-party internet websites referred to in this publication, and does not guarantee that any content on such websites is, or will remain, accurate or appropriate.

CONTENTS

Preface	<i>page</i> vii
<i>Chap. I</i> Introduction	1
II The Straight Line	9
III Curves	37
IV The Circle	53
V The Parabola	80
VI The Ellipse	98
VII The Hyperbola	125
VIII Polar Co-ordinates	140
Easy Examples	150
<i>Answers</i>	163

PREFACE

This book is a companion volume to the author's *Elementary Calculus*. It is intended for beginners in general and in particular for a class of students who do not intend to become mathematical specialists but want to acquire a sound working knowledge of the elements of the subject.

It is hoped that the explanations will prove adequate and sufficiently simple. The book contains a full discussion of the subject up to conics referred to their axes, using both point equations and parametric methods wherever the latter are suitable; at the same time the text contains frequent sets of easy examples so that it can readily be adapted for shortened courses.

The straight line and circle are fully treated and there is an early chapter on loci, on tangents and normals to simple curves using the Calculus, and on the use of parametric methods. Then follow chapters on the conics including the rectangular hyperbola referred to its asymptotes and a short chapter on polar and pedal equations. Some harder examples are included in the sets at the ends of the chapters.

My thanks are gratefully tendered to my nephew, Mr F. A. Spencer, for reading the proofs and verifying the answers to examples.

A. S. R.

Cambridge
August 1932

PREFACE TO THE SECOND EDITION

In order to provide still further for the needs of beginners a classified collection of easy Examples has been inserted at the end of the book. A few harder Examples have also been added at the ends of the chapters.

A. S. R.

July 1946.