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1 AB= 0 1 . [1] (b) Hence, write down (i) a direction vector for L 1;

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(ii) a vector equation for L_1 . [3] Another line L_2 has equation $40x + 71y + 41z = r$. The lines L_1 and L_2 intersect at the point P . (c) Find the coordinates of P . [6] (d) (i) Write down a direction vector for L_2 . (ii) Hence, find the angle between L_1 and L_2 . [7]

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3.

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Prerequisites for using this book include basic set-theoretic topology, the definition of CW-complexes, some knowledge of the fundamental group/covering space theory, and the construction of singular homology. Most of this material is briefly reviewed at the beginning of the book. The topics discussed by the authors include typical material for first- and second-year graduate courses. The core of the exposition consists of chapters on homotopy groups and on spectral sequences. There is also material that would interest students of geometric topology (homology with local coefficients and obstruction theory) and algebraic topology (spectra and generalized homology), as well as preparation for more advanced topics such as algebraic K -theory and the s -cobordism theorem. A unique feature of the book is the inclusion, at the end of each chapter, of several projects that require students to present proofs of substantial theorems and to write notes accompanying their explanations. Working on these projects allows students to grapple with the 'big picture', teaches them how to give mathematical lectures, and prepares them for participating in research seminars. The book is designed as a textbook for graduate students studying algebraic and geometric topology and homotopy theory. It will also be useful for students from other fields such as differential geometry, algebraic geometry, and homological algebra. The exposition in the text is clear; special cases are presented over complex general statements.

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