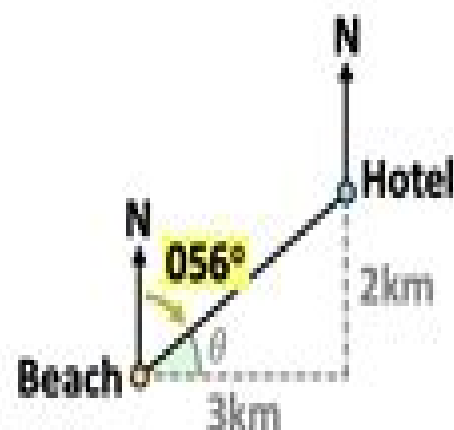


We are learning to: Use trigonometry in questions involving bearings.

Ex1 A hotel is located 3km east and 2km north of the beach. Calculate the bearing of the hotel from the beach to the nearest degree.

Solution



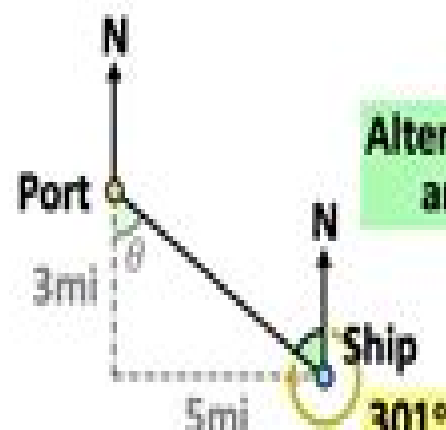
$$\tan(\theta) = \frac{2}{3}$$

$$\theta = \tan^{-1}\left(\frac{2}{3}\right) = 33.7^\circ$$

$$\begin{aligned} \text{Bearing} &= 90^\circ - 33.7^\circ \\ &= 56.3^\circ \\ &= 056^\circ \end{aligned}$$

Ex2 A ship sets off from port. It sails 3 miles due south and then 5 miles east. On what bearing is the port from the ship to the nearest degree?

Solution



Alternate angles are equal.

$$\tan(\theta) = \frac{5}{3}$$

$$\theta = \tan^{-1}\left(\frac{5}{3}\right) = 59.0^\circ$$

$$\begin{aligned} \text{Bearing} &= 360^\circ - 59.0^\circ \\ &= 301^\circ \end{aligned}$$

- Developing learners will be able to calculate the size of a bearing using trigonometry.
- Secure learners will be able to find missing lengths in bearings problems using trigonometry.
- Excelling learners will be able to solve unfamiliar problems by combining the use of bearings and trigonometry.

Bearing Word Problems Trigonometry

JG Myers



Bearing Word Problems Trigonometry:

Connections Maths Ajit Kalra, James Stamell, 2004 *Connections Maths 9* Stage 5 3 5 2 5 1 together with *Connections Maths 10* Stage 5 3 5 2 5 1 provides complete coverage of the outcomes for Stage 5 3 pathway The outcomes for the Stage 5 2 are covered in *Connections Maths 9* Stage 5 2 5 1 and *Connections Maths* Stage 10 5 2 5 1 Features outcomes at the start of every chapter a dynamic full colour design that clearly distinguishes theory examples exercises and features carefully graded exercises with worked examples and solutions linked to each cartoon offering helpful hints working mathematically strands that are fully integrated These also feature regularly in challenging sections designed as extension material which also contain interesting historical and real life context a chapter review to revise and consolidate learning in each chapter speed skills sections to revise and provide mental arithmetic skills problem solving application strategies with communication and reasoning through an inquiry approach a comprehensive Diagnostic test providing a cumulative review of learning in all chapters cross referenced to each exercise integrated technology activities literacy skills development language skills relevant to each chapter fully linked icons to accompany CD ROM The student CD ROM accompanying this text book can be used at school or at home for further explanation and learning Each CD ROM contains interactive diagnostic text perfect revision for all Stage 4 work The regenerative nature of the program allows for an almost limitless number of varied tests of equal difficulty This test can be used prior to commencing Stage 5 work dynamic geometry activities using WinGeom and Cabri software for student investigations using technology with formatted Excel spreadsheets full textbook with links to the above

Plane Trigonometry: a Modern Approach' 2004 Ed. , *Connections Maths 10* Ajit Kalra, James Stamell, 2005 The *Connections Maths 10* Stage 5 2 5 2 Teaching and Assessment Book includes many resources that makes using the *Connections* series the most effective and user friendly series available The resources in this book include a teaching program referenced to the student book syllabus notes detailed guidance on teaching each topic outcomes clearly stated and cross referenced to the student books assessment and reporting strategies overview and summary of every chapter and exercise in the student book relevant internet sites and further research questions all this material is also provided on CD ROM to allow for printing and customising

Mathematics , *College Trigonometry* Stanley I. Grossman, 1989 *Trigonometry with Analytic Geometry* Arnold R. Steffensen, Lee Murphy Johnson, 1983 **Trigonometry with Calculators** George S. Donovan, Beverly Beyreuther Gimmetstad, 1980 **STP Mathematics for Jamaica Grade 9** Sue Chandler, Ewart Smith, J Steele, 2014-10-09 A course created by the STP author team and Jamaican experts in mathematics education specifically tailored to the needs of secondary students in Jamaica Taking a problem solving approach the course comprehensively covers the curriculum for grades 7 9 and provides a firm foundation for the study of mathematics at CSEC

The English Cyclopaedia Charles Knight, 1859 **The English Cyclopædia** Charles Knight, 1859 This encyclopedia contains information on general arts and sciences It is a companion to the editor's other encyclopedias Cyclop

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