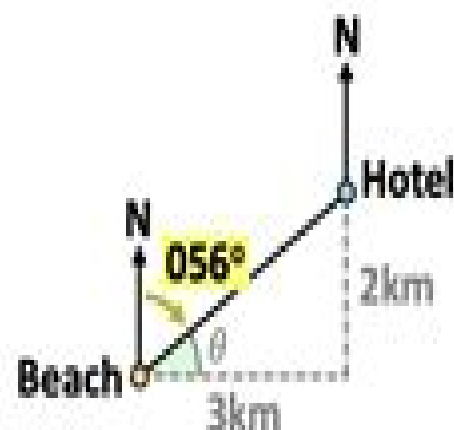


We are learning to: Use trigonometry in questions involving bearings.

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



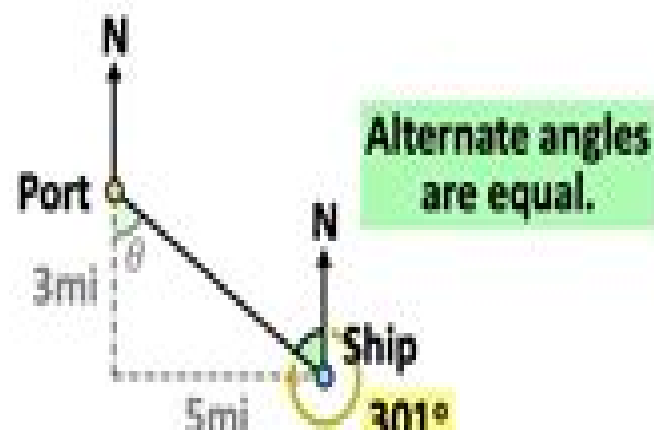
$$\tan(\theta) = \frac{2}{3}$$

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

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

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



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

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

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

- 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.

Trigonometry And Bearings Answers

**Beverly Langsford Willing, Catherine
Smith**



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