

CHAPTER 7

Applications of Vectors

Review of Prerequisite Skills, p. 350

8. The velocity relative to the ground has a magnitude equivalent to the hypotenuse of a triangle with sides 800 and 100. So, by the Pythagorean theorem we can find the magnitude of the velocity.

$$\begin{aligned}v^2 &= 800^2 + 100^2 \\&= 640,000 + 10,000 \\&= 650,000 \\v &= \sqrt{650,000} \\&\approx 806.2 \text{ km/h}\end{aligned}$$



$$\begin{aligned}\tan \theta &= \frac{100}{800} \\ \theta &= \tan^{-1}\left(\frac{100}{800}\right) \\ \theta &\approx 7.1^\circ\end{aligned}$$

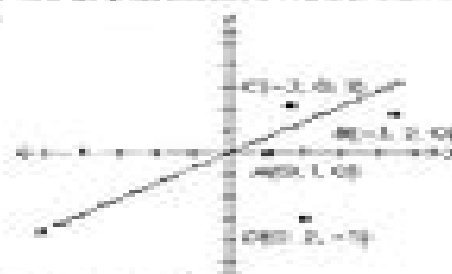
The velocity of the airplane relative to the ground is about 806 km/h at 7.1° .



The angle between the two displacements is 115° . The magnitude, m , and the angle, θ , of the displacement can be found using the cosine law.

$$\begin{aligned}m^2 &= 1^2 + 12^2 - 2(1)(12)\cos 135 \\&= 1 + 144 - 120\left(\frac{\sqrt{2}}{2}\right) \\&= 145 - 84.85 \\&= 60.15 \\m &= \sqrt{60.15} \\&\approx 7.76 \text{ km/h} \\12^2 &= 1^2 + m^2 - 2(1)(m)\cos \theta \\144 &= 1 + 60.15 - 2(1)(7.76)\cos \theta \\134.75 &= -15.52\cos \theta \\\cos \theta &= \frac{-134.75}{-15.52} \\\theta &= \cos^{-1}\left(\frac{-134.75}{-15.52}\right) \\&\approx 32.2^\circ\end{aligned}$$

So the displacement is 7.76 km/h at 32.2° to N .



$$\begin{aligned}\mathbf{c} &= (-3, 2, 7) \\c &= \text{magnitude} \\&= \sqrt{(-3)^2 + 2^2 + 7^2} \\&= \sqrt{9 + 4 + 49} \\&= \sqrt{62} \\&\approx 7.87 \\ \mathbf{b} &= (9, 5, 14) \\b &= \text{magnitude} \\&= \sqrt{9^2 + 5^2 + 14^2} \\&= \sqrt{81 + 25 + 196} \\&= \sqrt{302} \\&\approx 17.38\end{aligned}$$

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Eastern European Mathematics Education in the Decades of Change Alexander Karp,2020-05-04 This contributed volume is devoted to the recent history and evolution of mathematics education in Eastern Europe exploring how it was influenced by social and political changes in this part of the world Despite the broad recognition of the importance of these changes little scholarship exists that examines the ways in which they were followed by changes in the teaching of mathematics in the post socialist countries Indeed the analyzed processes are complex and vary across the states Accordingly this book touches on many factors including differences in cultures and traditions that find expression in the teaching of mathematics Specifically this volume seeks to explore what changes there were in education in general and in the position of mathematics in school education in these years and how these changes may be explained and documented what changes there were in the content of mathematics education and its assessment and how were they motivated and adopted what new textbooks appeared and what new methodological ideas were offered in them how and why mathematics teacher education and or professional development changed what was the role if any of foreign influences on mathematics education etc The book will be of interest to both researchers in mathematics education and practitioners teachers as well as a broader audience of historians and educators exploring the political aspects of education

Task-Based Language Teaching and Assessment N. P. Sudharshana,Lina Mukhopadhyay,2022-02-05 This book provides interdisciplinary perspectives on task based language teaching TBLT and task based language assessment TBLA in English as a second language ESL context It discusses theoretical and experimental insights of TBLT and TBLA from cognitive cognitive linguistic and psycholinguistic viewpoints The chapters written by leading language teaching specialists in the field introduce the reader to a comprehensive range of issues related to TBLT and TBLA such as curriculum design materials development and classroom teaching testing With

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A Comprehensive Guide Through the Italian Database Research Over the Last 25 Years Sergio Flesca, Sergio Greco, Elio Masciari, Domenico Saccà, 2017-05-29 This book offers readers a comprehensive guide to the evolution of the database field from its earliest stages up to the present and from classical relational database management systems to the current Big Data metaphor In particular it gathers the most significant research from the Italian database community that had relevant intersections with international projects Big Data technology is currently dominating both the market and research The book provides readers with a broad overview of key research efforts in modelling querying and analysing data which over the last few decades have become massive and heterogeneous areas

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