

7-7 Study Guide and Intervention

The Law of Cosines

The Law of Cosines Another relationship between the sides and angles of any triangle is called the **Law of Cosines**. You can use the Law of Cosines if you know three sides of a triangle or if you know two sides and the included angle of a triangle.

Law of Cosines

Let $\triangle ABC$ be any triangle with a , b , and c representing the measures of the sides opposite the angles with measures A , B , and C , respectively. Then the following equations are true.

$$a^2 = b^2 + c^2 - 2bc \cos A \quad b^2 = a^2 + c^2 - 2ac \cos B \quad c^2 = a^2 + b^2 - 2ab \cos C$$

Example 1

In $\triangle ABC$, find c .

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$c^2 = 12^2 + 10^2 - 2(12)(10)\cos 48^\circ$$

$$c = \sqrt{12^2 + 10^2 - 2(12)(10)\cos 48^\circ}$$

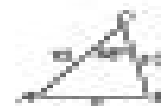
$$c \approx 9.1$$

Law of Cosines

$$a = 12, b = 10, \text{ and } C = 48^\circ$$

Take the square root of each side.

Use a calculator.



Example 2

In $\triangle ABC$, find $m\angle A$.

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$7^2 = 5^2 + 8^2 - 2(5)(8) \cos A$$

$$49 = 25 + 64 - 80 \cos A$$

$$-49 = -80 \cos A$$

$$\frac{1}{80} = \cos A$$

$$\cos^{-1} \frac{1}{80} = A$$

$$89^\circ = A$$

Law of Cosines

$$a = 7, b = 5, c = 8$$

Multiply.

Subtract 69 from each side.

Divide each side by -80 .

Use the inverse cosine.

Use a calculator.



Exercises

Find each measure using the given measures from $\triangle ABC$. Round angle measures to the nearest degree and side measures to the nearest tenth.

- If $b = 14$, $c = 12$, and $m\angle A = 82^\circ$, find a .
- If $a = 11$, $b = 10$, and $c = 12$, find $m\angle B$.
- If $a = 24$, $b = 18$, and $c = 18$, find $m\angle C$.
- If $a = 20$, $c = 25$, and $m\angle B = 83^\circ$, find b .
- If $b = 18$, $c = 23$, and $m\angle A = 52^\circ$, find a .
- If $a = 15$, $b = 19$, and $c = 13$, find $m\angle C$.

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Ying Liu

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Advanced Analytics with PySpark Akash Tandon,Sandy Ryza,Sean Owen,Uri Laserson,Josh Wills,2022-06-14 The amount of data being generated today is staggering and growing Apache Spark has emerged as the de facto tool to analyze big data and is now a critical part of the data science toolbox Updated for Spark 3 0 this practical guide brings together Spark statistical methods and real world datasets to teach you how to approach analytics problems using PySpark Spark s Python API and other best practices in Spark programming Data scientists Akash Tandon Sandy Ryza Uri Laserson Sean Owen and Josh Wills offer an introduction to the Spark ecosystem then dive into patterns that apply common techniques including classification clustering collaborative filtering and anomaly detection to fields such as genomics security and finance This updated edition also covers NLP and image processing If you have a basic understanding of machine learning and statistics and you program in Python this book will get you started with large scale data analysis Familiarize yourself with Spark s programming model and ecosystem Learn general approaches in data science Examine complete implementations that analyze large public datasets Discover which machine learning tools make sense for particular problems Explore code that can be adapted to many uses

Pro OGRE 3D Programming Gregory Junker,2007-02-01 Pro OGRE 3D Programming offers a detailed guide to the cross platform Object Oriented Graphics Rendering Engine OGRE 3D engine OGRE provides an object oriented interface to render 3D scenes Commonly used in game creation it can be utilized to create a variety of 3D based applications including architectural visualization and simulations The authors begin with obtaining the source code move on to using the rendering library and conclude with the polishing of the final application Beginning level knowledge of game design practices intermediate level knowledge of the C language and a familiarity with open source project management tools such as CVS and Subversion are all recommended

Handbook of Applied Hydrologic and Water Resources Engineering Raveendra Kumar Rai,Chandra Shekhar Prasad Ojha,Vijay P. Singh,2025-02-26 The Handbook of Applied Hydrologic and Water Resources Engineering examines the planning and design

of water supply systems flood control works drought mitigation measures navigation facilities and hydraulic structures as well as feasibility and environmental impact studies for various water related projects It is based on the experience gained through consultancy in dealing with various water resources issues and problems teaching and research It serves as a useful resource for graduate students and faculty members in civil engineering agricultural engineering and water resources engineering as well as practicing engineers working in civil environmental and agricultural fields *Urban Water Resources* Monzur Alam Imteaz, 2019-08-13 Ever increasing urbanization is impacting both the quantity and quality of urban water resources These urban water resources and components of the water cycle are likely to be affected severely To minimize the consequences on world water resources the development of sustainable water resources management strategies is inevitable An integrated urban water resources management strategy is the key to maintain sustainable water resources A preliminary understanding of physio chemical processes and analysis methodologies involved in each and every component of the urban water cycle is necessary In the past these components have been investigated and published individually With the view to aiding the development of integrated urban water resources management strategies this book endeavors to present and explain the major urban water cycle components from a single holistic platform The book presents the introduction analysis and design methods of a wide range of urban water components i e rainfall flood drainage water supply and waste water with the additions of sustainability practices in most of the components Current Hydrology and Hydraulics books do not incorporate sustainability features and practices while there are many books on general Sustainability without integrating sustainability concepts into typical engineering designs The book starts with components and classifications of world water resources then basic and detailed components of the hydrologic cycle climate change and its impacts on hydrologic cycle rainfall patterns and measurements rainfall losses derivations of design rainfalls streamflow measurements flood frequency analysis and probabilistic flood estimations deterministic flood estimations unit hydrograph flood modelling commercial modelling tools and use of Geographical Information System GIS for flood modelling principles of open channel hydraulics critical flow and flow classification indices open channel flow profiles uniform flow in open channel and open channel design estimation of future population and domestic water demand design of water supply systems sustainable water supply system water treatments wastewater quantification wastewater treatments sustainable and decentralized wastewater treatment stormwater drainage and urban drainage analysis water footprint and water energy nexus features of water conservation harvesting and recycling components of sustainable urban design stormwater treatment and integrated water management

Resource Competition James P. Grover, 2012-12-06 As one of the most quantitative of ecological subdisciplines resource competition is an important central area of ecology Recently research into this area has increased dramatically and resource competition models have become more complex The characterisation of this phenomenon is therefore the aim of this book Resource Competition seeks to identify the unifying principles emerging from experimental and theoretical

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