

Show that the points A(4, -3), B(7, 1) and C(10, 5) are collinear.

$$|\overrightarrow{AB}| = [3, 4]$$

$$|\overrightarrow{AB}| = \sqrt{(3)^2 + (4)^2}$$

$$|\overrightarrow{AB}| = \sqrt{25}$$

$$|\overrightarrow{AB}| = 5$$

$$|\overrightarrow{BC}| = [3, -4]$$

$$|\overrightarrow{BC}| = \sqrt{(3)^2 + (-4)^2}$$

$$|\overrightarrow{BC}| = \sqrt{25}$$

$$|\overrightarrow{BC}| = 5$$

Points A, B and C are collinear if:

$$|\overrightarrow{AB}| + |\overrightarrow{BC}| = |\overrightarrow{AC}|$$

$$|\overrightarrow{AC}| = [6, 8]$$

$$|\overrightarrow{AC}| = \sqrt{(6)^2 + (8)^2}$$

$$|\overrightarrow{AC}| = \sqrt{100}$$

$$|\overrightarrow{AC}| = 10$$

$$|\overrightarrow{AB}| + |\overrightarrow{BC}| = |\overrightarrow{AC}|$$

$$5 + 5 = 10$$

Content Points B

Charles Wang Wai Ng, Bruce Menzies

Content Points B:

Pressure Enthalpy Without Tears Eugene Silberstein, 2013-08-01 Enthalpy A fancy word for heat Over the years much has been written on the subject of pressure enthalpy and most of it is geared toward engineers. This program presents the important concepts of pressure enthalpy in a manner that will appeal to the service technician Each refrigerant has its own properties and these properties are compiled on the pressure enthalpy chart for that particular refrigerant The pressure enthalpy chart enables us to create a complete picture or snapshot of the entire system With a completed pressure enthalpy plot we can evaluate the major system components as well as calculate latent and sensible heat transfers Pharmaceutical Processing Mr. Rohit Manglik, 2024-07-30 Introduces key unit operations technologies and quality control aspects involved in pharmaceutical manufacturing and processing Backfill for Subsurface Structures ,1983 Theory of Sets of Points W. H. Young, Grace Chisholm Young, 2013-09-30 From the Preface to the first edition 1906 A few of the most modern books on the Theory of Functions devote some pages to the establishment of certain results belonging to our subject and required for the special purposes in hand But we may fairly claim that the present work is the first attempt at a systematic exposition of the subject as a whole **Hypothesis on MATTER** Nainan K. Varghese, 2008-05-09 Hypothesis on MATTER is a revolutionary alternative concept which attempts to explain all physical phenomena related to matter based on just one type of fundamental particle the Quantum of matter These particles form what the author calls 2D energy fields Space is assumed to contain an infinite number of 2D Energy Fields extending in all directions Nainan masterfully explains a wide array of physical phenomena from the origin of matter to gravity and subatomic interactions to cosmological events based on the simple mechanical interactions of quanta of matter. There is no more any need to envisage actions at a distance or to invoke irrational assumptions like diversity of forces mass energy equivalence constancy of light's speed dual nature of electric charge singularities big bang etc This new concept will radically alter our understanding of the physical universe and at the same time explain complex physical phenomena with simple Cause and Effect relationships Materials Processing Fundamentals Lifeng Zhang, Antoine Allanore, Cong Wang, James Yurko, Justin Crapps, 2016-12-01 This collection provides researchers and industry professionals with complete guidance on the synthesis analysis design monitoring and control of metals materials and metallurgical processes and phenomena Along with the fundamentals it covers modeling of diverse phenomena in processes involving iron steel non ferrous metals and composites It also goes on to examine second phase particles in metals novel sensors for hostile environment materials processes online sampling and analysis techniques and models for real time process control and quality monitoring systems Research Reporting Series ,1978 Geological Survey Professional Paper Geological Survey (U.S.),1964 **Development and Applications in Solubility** Trevor M. Letcher, 2007 Solubility is fundamental to most areas of chemistry and is one of the most basic of thermodynamic properties It underlies most industrial processes Bringing together the latest developments and ideas Developments and Applications in

Solubility covers many varied and disparate topics The book is a collection of work from leading experts in their fields and covers the theory of solubility modelling and simulation industrial applications and new data and recent developments relating to solubility Of particular interest are sections on experimental calculated and predicted solubilities solubility phenomena in green quaternary mixtures involving ionic liquids molecular simulation approaches to solubility solubility impurities in cryogenic liquids and carbon dioxide in chemical processes The book is a definitive and comprehensive reference to what is new in solubility and is ideal for researcher scientists industrialists and academics **Survey Professional Paper**, 1964 U.S. Geological Survey Professional Paper ,1964 *Utilizing Ready Mix Concrete* and Mortar Ravindra K. Dhir, Mukesh C. Limbachiya, 1999 Concrete will be the key material for Mankind to create the built environment of the next millennium The requirements of this infrastructure will be both demanding in terms of technical performance and economy and yet be greatly varied from architectural masterpieces to the simplest of utilities Utilizing ready mixed concrete and mortar forms the Proceedings of the three day International Conference held during the Congress Creating with Concrete 6 10 September 1999 organised by the Concrete technology unit University fo Dundee Advanced Unsaturated Soil Mechanics and Engineering Charles Wang Wai Ng, Bruce Menzies, 2014-04-21 Analytical and comprehensive this state of the art book examines the mechanics and engineering of unsaturated soils as well as explaining the laboratory and field testing and research that are the logical basis of this modern approach to safe construction in these hazardous geomaterials putting them into a logical framework for civil engineerin Earth Manual United States. Bureau of Environmental Science B. J. Smith, G M Phillips, M Sweeney, 2014-01-09 First published in 1983 This Reclamation, 1990 book aims to cover the requirements for the Business and Technician Education Council Level Three Four Units in Environmental Science At the same time it was recognised that there was a real need for a suitable book for those studying Building Quantity Surveying Architecture and Environmental Health at 1st degree level This book should therefore form a useful first year introductory text for both A level and BTEC entrants The book contains a large number of worked examples in the text as well as many student questions at the end of each chapter Experiments have been included not with the intention of being exhaustive but to give ideas Some areas of work lend themselves to student practical work better than others so that some inbalance is inevitable Environmental Science should give students an introduction to the environmental problems in construction and the methods which may be used to provide a satisfactory and economic solution Hillslope **Hydrology and Stability** Ning Lu, Jonathan W. Godt, 2013-01-17 Landslides are caused by a failure of the mechanical balance within hillslopes This balance is governed by two coupled physical processes hydrological or subsurface flow and stress The stabilizing strength of hillslope materials depends on effective stress which is diminished by rainfall This book presents a cutting edge quantitative approach to understanding hydro mechanical processes across variably saturated hillslope environments and to the study and prediction of rainfall induced landslides Topics covered include historic synthesis of hillslope geomorphology and hydrology total and effective stress distributions critical reviews of shear strength of hillslope materials and different bases for stability analysis Exercises and homework problems are provided for students to engage with the theory in practice This is an invaluable resource for graduate students and researchers in hydrology geomorphology engineering geology geotechnical engineering and geomechanics and for professionals in the fields of civil and **Geochemistry and Paleolimnology of the Trona Deposits** environmental engineering and natural hazard analysis and Associated Authigenic Minerals of the Green River Formation of Wyoming Wilmot Hyde Bradley, Hans P. Eugster, Hans Peter Eugster, 1969 Physical chemistry that determined formation of thick and extensive trona and trona halite beds and accompanying authigenic minerals in the paleolimnologic and climatic setting is discussed Achiote, a Promisina Alternative for Inclusion in Small Farming Systems, Trends in Welding Research 2012: Proceedings of the 9th International Conference Tarasankar DebRoy, Stan A. David, John N. DuPont, Toshihiko Koseki, Harry K. Bhadeshia, 2013-03-01 The Trends conference attracts the world's leading welding researchers Topics covered in this volume include friction stir welding sensing control and automation microstructure and properties welding processes procedures and consumables weldability modeling phase transformations residual stress and distortion physical processes in welding and properties and structural integrity of weldments Basic Design Data for the Use of Fiberboard in Shipping Containers K. Q. Kellicutt, E. F. Landt, 1951

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