

Name _____ # _____ Date _____

Section _____

St. Mary's Physics

Worksheet On Combining Forces, And Resolving Forces

Instructions: Use the graphical method to find the resultant and equilibrant for the following force problems.

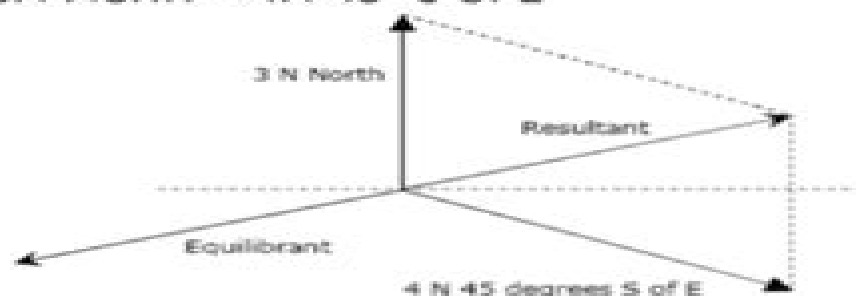
Definitions:

- Resultant - the single force that is equal to 2 or more forces.
- Equilibrant - the single force that will balance 2 or more forces.
 - Equal in magnitude but opposite in direction of the resultant.

Important: 1) Label all vectors AS SHOWN BELOW (1 point each)
2) All vectors should have arrows (1 point each)
3) The Resultant and Equilibrant should be reported with a magnitude, unit and direction. (1 point each)
4) Be neat!!!! (**Work in pencil**)

EXAMPLE:

3N North + 4N 45° S of E

**Resultant**

2.75 N 7° N of E

Equilibrant

2.75 N 7° S of W

Physics Lab Combining Forces Answers

Peter Rodgers



Physics Lab Combining Forces Answers:

RealTime Physics: Active Learning Laboratories, Module 1 David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 2011-11-15 The authors of RealTime Physics Active Learning Laboratories Module 1 Mechanics 3rd Edition David Sokoloff Priscilla Laws and Ron Thornton have been pioneers in the revolution of the physics industry In this edition they provide a set of labs that utilize modern lab technology to provide hands on information as well as an empirical look at several new key concepts They focus on the teaching learning issues in the lecture portion of the course as well as logistical lab issues such as space class size staffing and equipment maintenance Issues similar to those in the lecture have to with preparation and willingness to study RealTime Physics David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 1999 This computer based lab manual contains experiments in mechanics thermodynamics E M and optics using hardware and software designed to enhance readers understanding of calculus based physics concepts It uses an active learning cycle including concept overviews hypothesis testing prediction making and investigations **Illinois Technograph**, 1954

Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction *New Dictionary of Scientific Biography* Noretta Koertge, 2008 Also available online as part of the Gale Virtual Reference Library under the title Complete dictionary of scientific biography

Air Research and Development Command United States. Air Force. Air Research and Development Command, 1952

Scientific and Technical Aerospace Reports, 1991-05 Energy Research Abstracts, 1993 **Nanoscience And**

Technology: A Collection Of Reviews From Nature Journals Peter Rodgers, 2009-08-21 This book contains 35 review articles on nanoscience and nanotechnology that were first published in Nature Nanotechnology Nature Materials and a number of other Nature journals The articles are all written by leading authorities in their field and cover a wide range of areas in nanoscience and technology from basic research such as single molecule devices and new materials through to applications in for example nanomedicine and data storage Encyclopedia of the Solar System Paul Weissman, Lucy-Ann McFadden, Torrence Johnson, 1998-09-18 The Encyclopedia of the Solar System provides a series of comprehensive and authoritative articles written by more than 50 eminent planetary and space scientists Each chapter is self contained yet linked by cross references to other related chapters This beautifully designed book is a must for the library of professional astronomers and amateur star gazers alike in fact for anyone who wishes to understand the nature of our solar system Key Features Cross referenced throughout for easy comprehension Superbly illustrated with over 700 photos drawings and diagrams including 36 color plates Provides 40 thematically organized chapters by more than 50 eminent contributors

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