

Math 12 Review for vectors test

Name: Key
Date: _____ Period: _____

1) Given a vector v with magnitude 18 and a direction angle of 330 degrees, find the component form of v . Show exact value.

1) $\langle 2\sqrt{3}, -9 \rangle$

$$18 \left(\cos 330^\circ i + \sin 330^\circ j \right) = 18 \frac{\sqrt{3}}{2} i + 18 \left(-\frac{1}{2}\right) j$$

2) A vector v has a magnitude of 4 and makes an angle of 240 degrees with the positive x-axis. Find the component form of v .

2) E

- a) $\left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$ b) $\left(-\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$ c) $(4, -4\sqrt{3})$ d) $(2, 2\sqrt{3})$ **e) $(-2, -2\sqrt{3})$**

$$4 \left(\cos 240^\circ i + \sin 240^\circ j \right) = 4 \left(-\frac{1}{2}\right) i + 4 \left(-\frac{\sqrt{3}}{2}\right) j = \langle -2, -2\sqrt{3} \rangle$$

3) Given $u=4i+2j$, $w=4-2j$, and $v=2u-3w$, find the component form of v .

3) $\langle 5, 10 \rangle$

$$2(4i+2j) - 3(4-2j) = 8i + 4j - 12 + 6j = 8i + 10j - 12$$

4) A vector has an initial point of (2,5) and a terminal point of (0, -4). Find the component form of v

4) D

- a) $(2,9)$ b) $(9,2)$ c) $(2,j)$ **d) $(-2, -9)$** e) None of these.

$$\text{End} - \text{Start} = \langle 0-2, -4-5 \rangle = \langle -2, -9 \rangle$$

5) The direction angle for the linear combination of $-\sqrt{3}i + 1j$ is:

5) D

- a) 30 b) 60 c) 120 **d) 150** e) 300 f) 330 g) None of these

$\tan \theta_r = \frac{1}{\sqrt{3}} \Rightarrow \theta_r = 30^\circ \Rightarrow \theta = 150^\circ$

6) A vector has an initial point of (4,7) and a terminal point of (3, -2). Find its magnitude.

6) B

- a) $\sqrt{12}$ **b) $\sqrt{82}$** c) $\sqrt{79}$ d) $\sqrt{26}$ e) None of these

$$\|v\| = \sqrt{(3-4)^2 + (-2-7)^2} = \sqrt{(-1)^2 + (-9)^2} = \sqrt{1+81} = \sqrt{82}$$

7) Find the unit vector in the direction of $v = -2i + 4j$

ans in rational form 7) D

- a) $(-2\sqrt{20}, 4\sqrt{20})$ b) $(-2\sqrt{5}, 2\sqrt{5})$ c) $\left(\frac{4}{\sqrt{20}}, \frac{16}{\sqrt{20}}\right)$ **d) $\left(-\frac{\sqrt{5}}{5}, 2\frac{\sqrt{5}}{5}\right)$** e) None of these

$$\text{unit vector} = \frac{v}{\|v\|} = \frac{-2i + 4j}{\sqrt{(-2)^2 + 4^2}} = \frac{-2i + 4j}{\sqrt{20}} = \frac{-2i + 4j}{2\sqrt{5}} = \left\langle -\frac{1}{\sqrt{5}}, \frac{2}{\sqrt{5}} \right\rangle = \left\langle -\frac{\sqrt{5}}{5}, \frac{2\sqrt{5}}{5} \right\rangle$$

8) Find the magnitude of $u = 3i - 5j$

8) $\sqrt{34}$

$$\|u\| = \sqrt{(3)^2 + (-5)^2} = \sqrt{9+25} = \sqrt{34}$$

9) Find to the nearest degree, the angle between vectors $\langle 4,2 \rangle$ and $\langle 5,1 \rangle$

9) $\theta \approx 15^\circ$

$$\cos \theta = \frac{u \cdot v}{\|u\| \|v\|} = \frac{20 + 2}{\sqrt{20} \cdot \sqrt{26}} = \frac{22}{\sqrt{520}} \approx .9648 \approx 15.25^\circ$$

Supplemental Problems Answer Key Physics Chapter 20

**Charles Sidney Johnson, Lee G.
Pedersen**



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Problems and Solutions in Quantum Chemistry and Physics Charles Sidney Johnson, Lee G. Pedersen, 1986-01-01
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Making Mathematics Come to Life Oleg A. Ivanov,2009-12-16 It is difficult to define the genre of the book It is not a problem book nor a textbook nor a book for reading about mathematics It is most of all reminiscent of a good lecture course from which a thoughtful student comes away with more than was actually spoken about in the lectures from the Preface by A S Merkurjev If you are acquainted with mathematics at least to the extent of a standard high school curriculum and like it enough to want to learn more and if in addition you are prepared to do some serious work then you should start studying this book An understanding of the material of the book requires neither a developed ability to reason abstractly nor skill in using the refined techniques of mathematical analysis In each chapter elementary problems are considered accompanied by theoretical material directly related to them There are over 300 problems in the book most of which are intended to be solved by the reader In those places in the book where it is natural to introduce concepts outside the high school syllabus the corresponding definitions are given with examples And in order to bring out the meaning of such concepts clearly appropriate but not too many theorems are proved concerning them Unfortunately what is sometimes studied at school under the name mathematics resembles real mathematics not any closer than a plucked flower gathering dust in a herbarium or pressed between the pages of a book resembles that same flower in the meadow besprinkled with dewdrops sparkling in the light of the rising sun **Essential University Physics** Richard Wolfson,2007 Richard Wolfson sEssential University Physics is a concise and progressive calculus based physics textbook that offers clear writing great problems and interesting real life applications At nearly half the length and half the price of other physics texts on the market Essential University Physics is a compelling alternative for professors who want to focus on the fundamentals Doing Physics 1 Mechanics Motion in a Straight Line Motion in Two and Three Dimensions Force and Motion Using Newton s Laws Work Energy and Power Conservation of Energy Gravity Systems of Particles Rotational Motion Rotational Vectors and Angular Momentum Static

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Table of Contents Supplemental Problems Answer Key Physics Chapter 20

1. Understanding the eBook Supplemental Problems Answer Key Physics Chapter 20
 - The Rise of Digital Reading Supplemental Problems Answer Key Physics Chapter 20
 - Advantages of eBooks Over Traditional Books
2. Identifying Supplemental Problems Answer Key Physics Chapter 20
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Supplemental Problems Answer Key Physics Chapter 20
 - User-Friendly Interface
4. Exploring eBook Recommendations from Supplemental Problems Answer Key Physics Chapter 20
 - Personalized Recommendations
 - Supplemental Problems Answer Key Physics Chapter 20 User Reviews and Ratings

- Supplemental Problems Answer Key Physics Chapter 20 and Bestseller Lists
- 5. Accessing Supplemental Problems Answer Key Physics Chapter 20 Free and Paid eBooks
 - Supplemental Problems Answer Key Physics Chapter 20 Public Domain eBooks
 - Supplemental Problems Answer Key Physics Chapter 20 eBook Subscription Services
 - Supplemental Problems Answer Key Physics Chapter 20 Budget-Friendly Options
- 6. Navigating Supplemental Problems Answer Key Physics Chapter 20 eBook Formats
 - ePub, PDF, MOBI, and More
 - Supplemental Problems Answer Key Physics Chapter 20 Compatibility with Devices
 - Supplemental Problems Answer Key Physics Chapter 20 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Supplemental Problems Answer Key Physics Chapter 20
 - Highlighting and Note-Taking Supplemental Problems Answer Key Physics Chapter 20
 - Interactive Elements Supplemental Problems Answer Key Physics Chapter 20
- 8. Staying Engaged with Supplemental Problems Answer Key Physics Chapter 20
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Supplemental Problems Answer Key Physics Chapter 20
- 9. Balancing eBooks and Physical Books Supplemental Problems Answer Key Physics Chapter 20
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Supplemental Problems Answer Key Physics Chapter 20
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Supplemental Problems Answer Key Physics Chapter 20
 - Setting Reading Goals Supplemental Problems Answer Key Physics Chapter 20
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Supplemental Problems Answer Key Physics Chapter 20
 - Fact-Checking eBook Content of Supplemental Problems Answer Key Physics Chapter 20
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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