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HOMEWORK 3 AND SOLUTIONS

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MATH 550, VECTOR ANALYSIS, EXTRA HOMEWORK 3 AND SOLUTIONS Problem 0. Suppose $a, b, c \in \mathbb{R}^3$. Show that $(a \cdot b) \cdot c = \dots$

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Solution to Homework 1. Vector Analysis (P201) Q1. ... Since the vector we are looking for is parallel to xy -plane, it does not depend on z and let that vector be $\vec{v} = x\hat{i} + y\hat{j}$.

Perpendicular to $4\hat{i} + 3\hat{j} + \hat{k}$ implies, ... any text book containing vector analysis. Q17.

The $\nabla \cdot \vec{v} = x^2 + 4xy + 2yz^3$ evaluated at $a = ? \dots$

Vectors Exam1 and Problem Solutions

Problems and solutions 1. Problems { Chapter 1 Problem 5.1. Show from first principles that if V is a vector space (over \mathbb{R} or \mathbb{C}) then for any set X the space $(\mathcal{F}(X; V), +, \cdot)$ is a linear space over the same field, with 'pointwise operations'. Problem 5.2. If V is a vector space and $S \subseteq V$ is a subset which is closed

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Chapter 1 Vector Analysis

CHAPTER 1. VECTOR ANALYSIS 6 where the vector \hat{n} has unit length (unit vector) $|\hat{n}| = 1$ (1.14)

which is non-commutative (or anti-commutative) $\mathbf{A} \times \mathbf{B} = -\mathbf{B} \times \mathbf{A}$ (1.15) and distributive

$\mathbf{A} \times (\mathbf{B} + \mathbf{C}) = \mathbf{A} \times \mathbf{B} + \mathbf{A} \times \mathbf{C}$. (1.16) Geometrically the magnitude of vector $\mathbf{A} \times \mathbf{B}$ is the area of parallelogram

generated by \mathbf{A} and \mathbf{B} and points in the direction \hat{n} perpendicular

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Vector analysis, a branch of mathematics that deals with quantities that have both magnitude and direction. Some physical and geometric quantities, called scalars, can be fully defined by specifying their magnitude in suitable units of measure. Thus, mass can be expressed in grams, temperature in ...

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