

1.1 Vectors in Two- and Three-Dimensional Space

Note Title

11/16/2015

4. $(2, 3, 5) - 4\mathbf{i} + 3\mathbf{j} = (?, ?, ?)$

$$(2, 3, 5) - 4\hat{i} + 3\hat{j} = (2, 3, 5) - (4, 0, 0) + (0, 3, 0) \\ = \underline{(-2, 6, 5)}$$

12.6. (b) Using an argument based on similar triangles, prove that $\alpha \mathbf{v} = (\alpha x, \alpha y, \alpha z)$ when $\mathbf{v} = (x, y, z)$.

Consider just the vectors \vec{v} , $\alpha \vec{v}$ and the x -axis. Drop perpendiculars from \vec{v} to the x -axis, and from $\alpha \vec{v}$ to the x -axis:



Assume $\alpha > 0$

x = 1st component of \vec{v}

x' = 1st component of $\alpha \vec{v}$

By similar triangles $\frac{\text{length } \alpha \vec{v}}{\text{length } \vec{v}} = \frac{x'}{x}$

Solutions For Vector Calculus 6th Ed

Jerrold E. Marsden



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