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CHAPTER 1. VECTOR ANALYSIS

# Chapter 1

# Vector Analysis

Problem 1.1

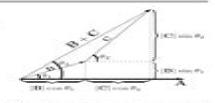
(a) From the diagram,  $|\mathbf{B} + \mathbf{C}| \cos \theta_3 = |\mathbf{B}| \cos \theta_1 + |\mathbf{C}| \cos \theta_2$ . Multiply by  $|\mathbf{A}|$ ,  $|\mathbf{A}||\mathbf{B} + \mathbf{C}| \cos \theta_3 = |\mathbf{A}||\mathbf{B}| \cos \theta_1 + |\mathbf{A}||\mathbf{C}| \cos \theta_2$ .

So:  $A \cdot (B + C) = A \cdot B + A \cdot C$ . (Dot product is distributive)

Similarly:  $|\mathbf{B} + \mathbf{C}| \sin \theta_3 = |\mathbf{B}| \sin \theta_1 + |\mathbf{C}| \sin \theta_2$ . Mulitply by  $|\mathbf{A}| \hat{\mathbf{n}}$ .  $|\mathbf{A}| |\mathbf{B} + \mathbf{C}| \sin \theta_3 \hat{\mathbf{n}} = |\mathbf{A}| |\mathbf{B}| \sin \theta_1 \hat{\mathbf{n}} + |\mathbf{A}| |\mathbf{C}| \sin \theta_2 \hat{\mathbf{n}}$ .

If fi is the unit vector pointing out of the page, it follows that

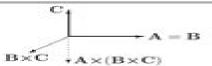
 $A \times (B + C) = (A \times B) + (A \times C)$ . (Cross product is distributive)



(b) For the general case, see G. E. Hay's Vector and Tensor Analysis, Chapter 1, Section 7 (dot product) and Section 8 (cross product)

Problem 1.2

The triple cross-product is not in general associative. For example, suppose  $\mathbf{A} = \mathbf{B}$  and  $\mathbf{C}$  is perpendicular to  $\mathbf{A}$ , as in the diagram. Then  $(\mathbf{B} \times \mathbf{C})$  points out-of-the-page, and  $\mathbf{A} \times (\mathbf{B} \times \mathbf{C})$  points down, and has magnitude ABC. But  $(\mathbf{A} \times \mathbf{B}) = \mathbf{0}$ , so  $(\mathbf{A} \times \mathbf{B}) \times \mathbf{C} = \mathbf{0} \neq \mathbf{A} \times (\mathbf{B} \times \mathbf{C})$ .

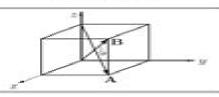


Problem 1.3

$$A = +1\hat{x} + 1\hat{y} - 1\hat{z}$$
;  $A = \sqrt{3}$ ;  $B = 1\hat{x} + 1\hat{y} + 1\hat{z}$ ;  $B = \sqrt{3}$ .

$$\mathbf{A} \cdot \mathbf{B} = +1 + 1 - 1 = 1 = AB \cos \theta = \sqrt{3}\sqrt{3} \cos \theta \Rightarrow \cos \theta = \frac{1}{3}$$
.

 $\theta = \cos^{-1}(\frac{1}{3}) \approx 70.5288^{\circ}$ 



Problems 1.4

The cross-product of any two vectors in the plane will give a vector perpendicular to the plane. For example, we might pick the base (A) and the left side (B):

 $A = -1\hat{x} + 2\hat{y} + 0\hat{z}; B = -1\hat{x} + 0\hat{y} + 3\hat{z}.$ 

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