

Chapter 1

Vector Analysis

Problem 1.1

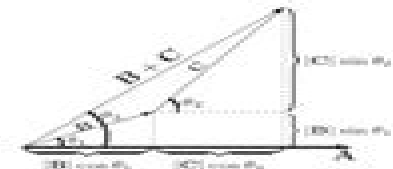
- (a) From the diagram, $|\mathbf{B} + \mathbf{C}| \cos \theta_3 = |\mathbf{B}| \cos \theta_1 + |\mathbf{C}| \cos \theta_2$. Multiply by $|\mathbf{A}|$.
 $|\mathbf{A}||\mathbf{B} + \mathbf{C}| \cos \theta_3 = |\mathbf{A}||\mathbf{B}| \cos \theta_1 + |\mathbf{A}||\mathbf{C}| \cos \theta_2$.

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

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

If \hat{n} is the unit vector pointing out of the page, it follows that

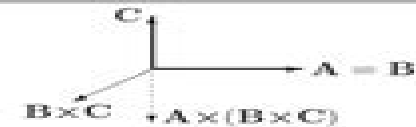
$\mathbf{A} \times (\mathbf{B} + \mathbf{C}) = (\mathbf{A} \times \mathbf{B}) + (\mathbf{A} \times \mathbf{C})$. (Cross product is distributive)



- (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 $(\mathbf{A} \times \mathbf{B}) \times \mathbf{C} = \mathbf{0} \neq \mathbf{A} \times (\mathbf{B} \times \mathbf{C})$.

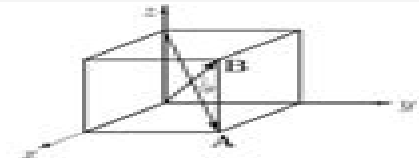


Problem 1.3

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

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

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



Problem 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 (\mathbf{A}) and the left side (\mathbf{B}):

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

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