

Solutions

Solutions to Exercises for Chapter 1

- 1.1 Density and power are scalars; all the others are vectors.
- 1.2 $|\mathbf{a}| = \sqrt{4+0+9} = \sqrt{13}$, $|\mathbf{b}| = \sqrt{1+0+1} = \sqrt{2}$, $\mathbf{a} + \mathbf{b} = (3, 0, 2)$, $\mathbf{a} - \mathbf{b} = (1, 0, 4)$ and $\mathbf{a} \cdot \mathbf{b} = 2 + 0 - 3 = -1$. To find the angle between $\mathbf{a}$ and $\mathbf{b}$, use the formula $\mathbf{a} \cdot \mathbf{b} = |\mathbf{a}||\mathbf{b}|\cos\theta$. Substituting the values already obtained, this becomes $-1 = \sqrt{13}\sqrt{2}\cos\theta$, so $\cos\theta \approx -0.196$ and $\theta \approx 101^\circ$.
- 1.3 The component of $\mathbf{u}$ in the direction of $\mathbf{v}$ is $\mathbf{u} \cdot \mathbf{v}/|\mathbf{v}|$. For $\mathbf{u} = (1, 2, 2)$ and $\mathbf{v} = (-6, 2, 3)$, $\mathbf{u} \cdot \mathbf{v} = -6 + 4 + 6 = 4$ and $|\mathbf{v}| = \sqrt{36 + 4 + 9} = 7$, so the answer is $4/7$. Similarly the component of $\mathbf{v}$ in the direction of $\mathbf{u}$ is $\mathbf{u} \cdot \mathbf{v}/|\mathbf{u}| = 4/3$.
- 1.4 The plane perpendicular to $\mathbf{a} = (1, 1, -1)$ is $\mathbf{r} \cdot \mathbf{a} = \text{constant}$, so $x + y - z = \text{constant}$. If the plane passes through $x = 1$, $y = 2$, $z = 1$ then the value of the constant is $1 + 2 - 1 = 2$.
- 1.5 Let two adjacent sides of the rhombus be the vectors $\mathbf{a}$ and $\mathbf{b}$ (as in Figure 1.10). Then since the sides are of equal length, $|\mathbf{a}| = |\mathbf{b}|$. The diagonals of the rhombus are $\mathbf{a} + \mathbf{b}$ and $\mathbf{a} - \mathbf{b}$. Taking the dot product of the two diagonals, $(\mathbf{a} + \mathbf{b}) \cdot (\mathbf{a} - \mathbf{b}) = \mathbf{a} \cdot \mathbf{a} + \mathbf{b} \cdot \mathbf{a} - \mathbf{a} \cdot \mathbf{b} - \mathbf{b} \cdot \mathbf{b} = |\mathbf{a}|^2 - |\mathbf{b}|^2 = 0$, so the diagonals are perpendicular.
- 1.6 Consider the unit cube, which has sides of length 1 parallel to the coordinate axes. Two opposite vertices are the points $(0, 0, 0)$ and $(1, 1, 1)$, so one diagonal is the vector $(1, 1, 1)$. Another diagonal runs from $(0, 0, 1)$ to $(1, 1, 0)$, so another diagonal is the vector $(1, 1, -1)$. Both diagonals have magnitude

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