Solutions

Solutions to Exercises for Chapter 1

- 1.1 Density and power are scalars; all the others are vectors.
- 1.2 $|a| = \sqrt{4+0+9} = \sqrt{13}$, $|b| = \sqrt{1+0+1} = \sqrt{2}$, a+b=(3,0,2), a-b=(1,0,4) and $a \cdot b = 2+0-3 = -1$. To find the angle between a and b, use the formula $a \cdot b = |a||b|\cos\theta$. 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 u in the direction of v is $u \cdot v/|v|$. For u = (1, 2, 2) and v = (-6, 2, 3), $u \cdot v = -6 + 4 + 6 = 4$ and $|v| = \sqrt{36 + 4 + 9} = 7$, so the answer is 4/7. Similarly the component of v in the direction of u is $u \cdot v/|u| = 4/3$.
- 1.4 The plane perpendicular to a = (1, 1, -1) is r · a = constant, so x + y z = 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 \boldsymbol{a} and \boldsymbol{b} (as in Figure 1.10). Then since the sides are of equal length, $|\boldsymbol{a}| = |\boldsymbol{b}|$. The diagonals of the rhombus are $\boldsymbol{a} + \boldsymbol{b}$ and $\boldsymbol{a} \boldsymbol{b}$. Taking the dot product of the two diagonals, $(\boldsymbol{a} + \boldsymbol{b}) \cdot (\boldsymbol{a} \boldsymbol{b}) = \boldsymbol{a} \cdot \boldsymbol{a} + \boldsymbol{b} \cdot \boldsymbol{a} \boldsymbol{a} \cdot \boldsymbol{b} \boldsymbol{b} \cdot \boldsymbol{b} = |\boldsymbol{a}|^2 |\boldsymbol{b}|^2 = 0$, 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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