

12.8.7 n. 10 (p. 456)

- (a) $\mathbf{b} = (1, -1)$ or $\mathbf{b} = (-1, 1)$.
 (b) $\mathbf{b} = (-1, -1)$ or $\mathbf{b} = (1, 1)$.
 (c) $\mathbf{b} = (-3, -2)$ or $\mathbf{b} = (3, 2)$.
 (d) $\mathbf{b} = (b, -a)$ or $\mathbf{b} = (-b, a)$.

12.8.8 n. 13 (p. 456)

If \mathbf{b} is the required vector, the following conditions must be satisfied

$$\langle \mathbf{a}, \mathbf{b} \rangle = 0 \quad \|\mathbf{b}\| = \|\mathbf{a}\|$$

If $\mathbf{a} = \mathbf{0}$, then $\|\mathbf{a}\| = 0$ and hence $\mathbf{b} = \mathbf{0}$ as well. If $\mathbf{a} \neq \mathbf{0}$, let the coordinates of \mathbf{a} be given by the couple (α, β) , and the coordinates of \mathbf{b} by the couple (x, y) . The above conditions take the form

$$\alpha x + \beta y = 0 \quad x^2 + y^2 = \alpha^2 + \beta^2$$

Either α or β must be different from 0. Suppose α is nonzero (the situation is completely analogous if $\beta \neq 0$ is assumed). Then the first equation gives

$$x = -\frac{\beta}{\alpha}y \tag{12.2}$$

and substitution in the second equation yields

$$\left(\frac{\beta^2}{\alpha^2} + 1\right)y^2 = \alpha^2 + \beta^2$$

that is,

$$y^2 = \frac{\alpha^2 + \beta^2}{\frac{\alpha^2 + \beta^2}{\alpha^2}} = \alpha^2$$

and hence

$$y = \pm\alpha$$

Substituting back in (12.2) gives

$$x = \mp\beta$$

Thus there are only two solutions to the problem, namely, $\mathbf{b} = (-\beta, \alpha)$ and $\mathbf{b} = (\beta, -\alpha)$. In particular,

- (a) $\mathbf{b} = (-2, 1)$ or $\mathbf{b} = (2, -1)$.
 (b) $\mathbf{b} = (2, -1)$ or $\mathbf{b} = (-2, 1)$.
 (c) $\mathbf{b} = (-2, -1)$ or $\mathbf{b} = (2, 1)$.
 (d) $\mathbf{b} = (-1, 2)$ or $\mathbf{b} = (1, -2)$.

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