

Capítulo 1

1. **Exercício 1.1:** Para demonstrar o paralelismo basta construir

$$\begin{aligned}\overrightarrow{AB} &= \vec{A} - \vec{B} = -\vec{i} - 2\vec{j} + \vec{k} \\ \overrightarrow{CD} &= \vec{C} - \vec{D} = 3\vec{i} + 6\vec{j} - 3\vec{k}\end{aligned}$$

e fazer o produto vetorial entre eles. Se forem paralelos mesmo, deverá dar zero.

$$\overrightarrow{AB} \times \overrightarrow{CD} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ -1 & -2 & 1 \\ 3 & 6 & -3 \end{vmatrix} = 0$$

para ver que é zero, basta notar que a coluna 2 e a coluna 3 são proporcionais (ou então faz o cálculo na unha).

2. **Exercício 1.2:** Banal. Basta fazer o produto escalar e mostrar que dá zero.
3. **Exercício 1.3:** Banal. Basta mostrar que $\overrightarrow{AB} \cdot \vec{C} = 0$, mostrando que os pontos perfazem um triângulo e que o produto escalar de dois deles (a serem verificados) dá zero. Na verdade, é fácil ver que são $\vec{A}$ e $\vec{B}$ que são perpendiculares.
4. **Exercício 1.4:** Temos que

$$|\vec{A}|^2 = A^2 = B^2 + C^2 - 2BC \cos \theta,$$

onde θ é o ângulo entre $\vec{B}$ e $\vec{C}$. Geometricamente, temos que $\vec{A}$, $\vec{B}$ e $\vec{C}$ formam um triângulo, que é o conteúdo da fórmula

$$\vec{A} = \vec{B} - \vec{C},$$

assim, é só desenhar o triângulo e a lei dos cossenos aparece imediatamente.

5. **Exercício 1.5:** Façamos o produto escalar de $\vec{A}$ com $\vec{B}$. Temos que

$$\vec{A} \cdot \vec{B} = AB \cos(\theta_{AB}) = \cos \alpha \cos \beta + \sin \alpha \sin \beta,$$

onde θ_{AB} é o ângulo entre $\vec{A}$ e $\vec{B}$, evidentemente. Este ângulo pode ser imediatamente relacionado com os ângulos α e β , bastando para isso fazer um desenho de $\vec{A}$ e $\vec{B}$ num plano cartesiano. Assim, temos que $\theta_{AB} = \alpha - \beta$ e, portanto,

$$\cos(\alpha - \beta) = \cos \alpha \cos \beta + \sin \alpha \sin \beta,$$

como queríamos demonstrar.

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