Proposición 8.6 (Identidad de polarización)

- Sea (V, <, >) un ℝ-espacio vectorial con producto interno. Entonces para cada v, w ∈ V vale:
 < v, w >= ½||v + w||² − ½||v − w||².
- ii. Sea (V, <, >) un C-espacio vectorial con producto interno. Entonces para cada v, w ∈ V vale:
 < v, w >= ½||v + w||² ½||v w||² + ½||v + iw||² ½||v iw||².
- Proof. i. Calculemos $||v + w||^2 y ||v w||^2$:
 - $\begin{array}{l} \bullet \ \ \|v+w\|^2 = < v+w, v+w> = < v, v> + < v, w> + \overline{< w, v>} + < w, w> = \\ = < v, v> + 2 < v, w> + < w, w> = \|v\|^2 + 2 < v, w> + \|w\|^2. \end{array}$
 - $\begin{array}{l} \bullet \ \ \|v-w\|^2 = < v-w, v-w> = < v, v> < v, w> \overline{< w, v>} + < w, w> = \\ = < v, v> 2 < v, w> + < w, w> = \|v\|^2 2 < v, w> + \|w\|^2. \end{array}$

$$\Rightarrow \frac{1}{4} \|v + w\|^2 - \frac{1}{4} \|v - w\|^2 = \frac{1}{4} (\|v + w\|^2 + \|v - w\|^2) = \frac{1}{4} (\|v\|^2 + 2 < v, w > + \|w\|^2 - \|v\|^2 + 2 < v, w > - \|w\|^2) = \frac{1}{4} (4 < v, w >) = < v, w > - \|v\|^2 + 2 < v, w >$$

En forma análoga a lo hecho en i, usando el hecho de que:

```
\frac{1}{4}||v + w||^2 - \frac{1}{4}||v - w||^2 = \text{Re}\langle v, w \rangle.
```

Marine Street Williams Mr.

Ahora, $\|v + iw\|^2 = \langle v + iw, v + iw \rangle = \langle v, v \rangle + \langle v, iw \rangle + \overline{\langle iw, v \rangle} + \langle w, w \rangle = \|v\|^2 + 2\mathbf{Re} \langle v, iw \rangle + \|w\|^2 = \|v\|^2 + 2\mathbf{Im} \langle v, w \rangle + \|w\|^2 y$, similarmente, $\|v - iw\|^2 = \|v\|^2 - 2\mathbf{Im} \langle v, w \rangle + \|w\|^2$.

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Joseph A. Gallian

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