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On the B-angle and g-angle in normed spaces

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Abstract:

It is known that in a strictly convex normed space, the $B-$orthogonality (Birkhoff orthogonality) has the property, `` $B-$orthogonality is unique to the left``. Using this property, we introduce the definition of the so-called $B-$angle between two vectors, in a smooth and uniformly convex space. Also, we define the so-called $g-$angle between two vectors. It is demonstrated that the $g-$angle in a unilateral triangle, in a quasi-inner product space, is $\pi/3$. The $g-$angle between a side and a diagonal, in a so-called $g-$quandrangle, is $\pi/4$.

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