



Volume 8, Issue 4, Article 99

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

Authors: [Pavle M. Milicic](#),

Keywords: Smooth normed spaces, quasi-inner product spaces, oriented (non-oriented) B -angle between two vectors, oriented (non-oriented) g -angle between two vectors.

Date Received: 15/02/07

Date Accepted: 16/07/07

Subject Codes: 46B20, 46C15, 51K05.

Editors: [Sever S. Dragomir](#),

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 -quadrangle, is $\pi/4$.



[Download Screen PDF](#)



[Download Print PDF](#)



[Send this article to a friend](#)



[Print this page](#)