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Hlawka's inequality

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Owner Mathprof (13753)
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Author Mathprof (13753)

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Theorem 1 In an http://planetmath.org/InnerProductSpaceinner product space, let x, y, z be vectors. Then

$$||x + y|| + ||y + z|| + ||z + x|| \le ||x|| + ||y|| + ||z|| + ||x + y + z||.$$