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Chan-Gyun Kim* (cgkim75@gmail.com), Department of Mathematics, College of William and Mary, Williamsburg, VA 23185. *Three solutions theorem for p -Laplacian boundary value problems.*

The three solutions theorem is established for p -Laplacian boundary value problems in the presence of two pairs of lower and upper solutions, which are well ordered by the relationship between the lower and upper solutions and degree theory. In addition, an application for the three solutions theorem is given. (Received September 16, 2011)