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Xiu Ye* (xyye@ualr.edu), 2801 S. University, Little Rock, AR 72204. *Discontinuous Galerkin method and Weak Galerkin Method.*

Interior penalty discontinuous Galerkin (IPDG) methods and weak Galerkin (WG) methods are studied to solve the problems such as Div-Curl problems and second order elliptic problems in non-divergence form. The numerical results of the both IPDG methods and WG methods are presented. Some new developments of the WG methods also are discussed. (Received September 07, 2018)