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Zdenek Dvorak and **Bernard Lidicky** (lidicky@illinois.edu). *3-coloring triangle-free planar graphs with a precolored 8-cycle.*

Let G be a planar triangle-free graph and let C be a cycle in G of length at most 8. We characterize all situations where a 3-coloring of C does not extend to a proper 3-coloring of the whole graph. (Received August 12, 2013)