1135-05-513 **Mark E. Watkins*** (mewatkin@syr.edu), Mathematics Department, 215 Carnegie, Syracuse University, Syracuse, NY 13244-1150. *A Survey of Infinite Graphs of Connectivity 1.*

Let Γ be an infinite, locally finite, connected graph having a cut-vertex. We present necessary and sufficient conditions for the action of the automorphism group $\mathrm{Aut}(\Gamma)$ to be, respectively, vertex-transitive, edge-transitive, primitive, regular, the group of a Cayley graph, the group of a planar primitive graph, or a Frobenius group. [Some of the older results in this list had been obtained jointly with H.A. Jung and J.E. Graver.] We prove that a locally finite graph having a cut-vertex has a Frobenius automorphism group if and only if every vertex is incident with exactly two isomorphic lobes that are themselves a graphical regular representation (GRR). (Received September 06, 2017)