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A characterization of infinite cop-win graphs

There are essentially two characterizations of finite cop-win graphs. One is in terms of a relation defined on the vertex set, and the other is in terms of a vertex ordering. The first characterization holds unchanged for infinite graphs; the second does not. We show that, if the second characterization is reformulated in terms of a sequence of retractions that each fix all but one vertex, then it also holds unchanged for infinite graphs.