1003-05-1389 **Richard Hammack*** (`rhammack@rmc.edu`), Mathematics Department, P.O. Box 5005, Randolph-Macon College, Ashland, VA 23005. *Contracting graphs to squares.*

We devise an algorithm that contracts an arbitrary simple graph to a square. The algorithm is polynomial provided the graph's complement has radius unequal to 2. The general case is known to be NP complete. (Received October 05, 2004)