1067-46-701   **David Penneys*** (`dpenneys@math.berkeley.edu`), 1049 Evans Hall, Berkeley, CA 94720.
Eliminating vines and weeds in the classification of subfactors to index 5.

In a series of papers by Vaughan Jones, Scott Morrison, the speaker, Emily Peters, Noah Snyder, and James Tener, we implement obstructions to principal graphs in the classification of subfactors up to index 5. In part 2 (arXiv:1007.2240), we eliminate two problematic weeds via a quadratic tangles test developed by Jones (arXiv:1007.1158), and in part 4 (in preparation), we eliminate vines via a theorem about cyclotomicity of graph norms by Frank Calegari, Morrison, and Snyder (arXiv:1004.0665). (Received September 13, 2010)