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Gary Gordon* (gordong@lafayette.edu), 229 Pardee Hall, Lafayette College, Easton, PA 18042. *Matroids, greedoids and the Tutte polynomial*. Preliminary report.

We present some conjectures and counterexamples related to the greedoid generalization of the Tutte polynomial of a matroid. In particular, we give simple examples to show the Tutte polynomial does not distinguish greedoids. We also study the affine relations satisfied by the coefficients of the Tutte polynomial in this more general setting. (Received January 21, 2012)