1077-13-2650   **Brian Johnson*** (`s-bjohns67@math.unl.edu`), 203 Avery Hall, University of Nebraska - Lincoln, Lincoln, NE 68588-0130. *Prime avoidance avoidance.* Preliminary report.

Prime avoidance is a fundamental result in the theory of commutative rings, but in the graded setting (even just $\mathbb{Z}$-graded), the theorem is false for homogeneous elements. On our way to developing a general theory of commutative rings graded by arbitrary abelian groups, we note a few alternate proofs of results usually making use of prime avoidance. (Received September 22, 2011)