

1. In the [previous homework set#4](#), problem 6 was postponed by one week. Do it now.
2. The rest of this homework set is a big reading assignment: Edward Witten's 1982 paper *Constraints On Supersymmetry Breaking* about the Witten index and other constraints on spontaneous SUSY breaking (perturbative or nonperturbative). The paper was published in *Nuclear Physics B* **202** (1982), pages 252–316; for your convenience, [here is a local online copy](#).

This is a long and hard paper, so please read carefully. Try to go through the first half of the paper (sections 1 through 6) this week, you can read the rest of the paper next week. Also, at first reading, skim through section 3 and focus on the more important sections 1–2 and 4–6. Once you understand those section, go back to section 3.