1176-14-107   **Hunter Dinkins*** (`hdinkins@live.unc.edu`). *Macdonald polynomials and 3d mirror symmetry.* A duality known as 3d mirror symmetry predicts the equivalence of certain generating functions for varieties arising from 3d gauge theories. The simplest interesting example of such a variety is the cotangent bundle to the Grassmannian. We explain what the claims of 3d mirror symmetry are for this variety and its 3d mirror dual. We demonstrate how 3d mirror symmetry in this case is equivalent to a certain recently discovered property of Macdonald polynomials. We expect that more general cases of 3d mirror symmetry are similarly intertwined with properties of Macdonald polynomials. (Received January 17, 2022)