1018-13-22   **Rafael H. Villarreal*** (`vila@math.cinvestav.mx`), Centro de Investigacion y de Estudios, Avanzados-IPN, Departamento de Matematicas, Apartado Postal 14-740, Mexico City DF, 07000. *Normalization of monomial ideals and Hilbert functions.* Preliminary report.

We study the normalization of a monomial ideal and show how to compute its Hilbert function if the ideal is zero dimensional. A positive lower bound for the second coefficient of the Hilbert polynomial is shown. (Received January 04, 2006)