Nimr Fahmy* (nfahmy@tougaloo.edu), 500 W. County Line Road, Tougaloo, MS 39174. My Favorite Integrals.

One of the most important integrals in Probability Theory is \( \int_{-1}^{1} e^{-x^2} \, dx \). And in Physics some of the most important integrals are \( \int_{0}^{2\pi} \sin^n x \, dx \), \( \int_{0}^{2\pi} \sin^m x \cos^n x \, dx \) and those similar to them. In this paper we will find these integrals and see how they are used in Probability. (Received August 08, 2005)