

We compare F with the critical F value using a table of the F -distribution [Burin70], entering the table with d and $N_1 + N_2 - d - 1$ degrees of freedom. For the two iris species, $D^2 = 103.23$. The F statistic is 625.45 with 4 and 95 degrees of freedom. We enter the table for F at the confidence level 0.01 [Burin70] with 4 and 100 degrees of freedom, since that is the nearest to our 95; we find that the critical F value $F_{4,100,0.01}$ equals 13.57, so the result is very much greater than would be given by pure chance and indicates good separation between the species.