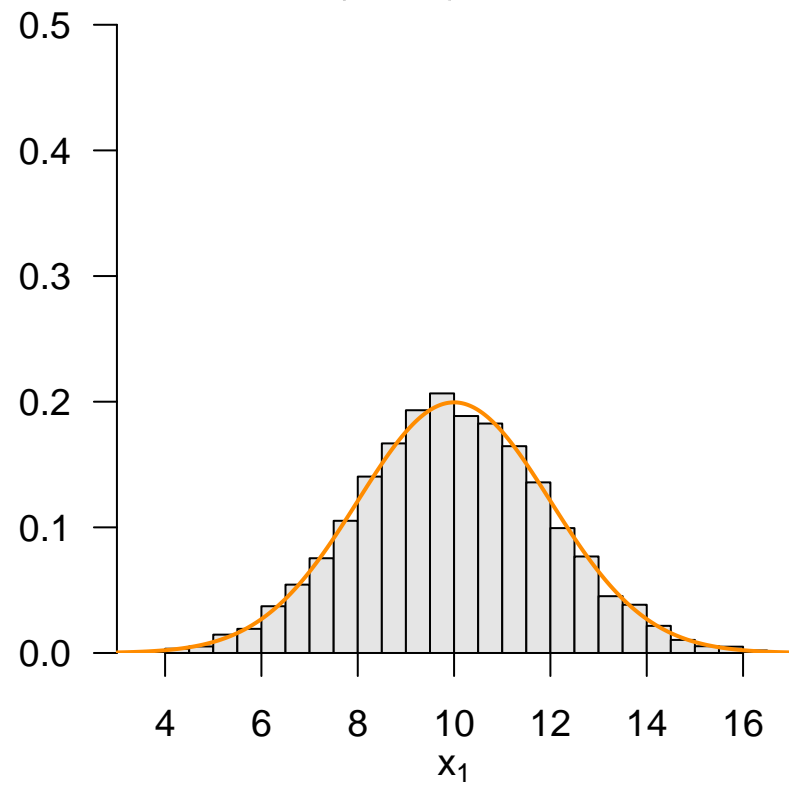
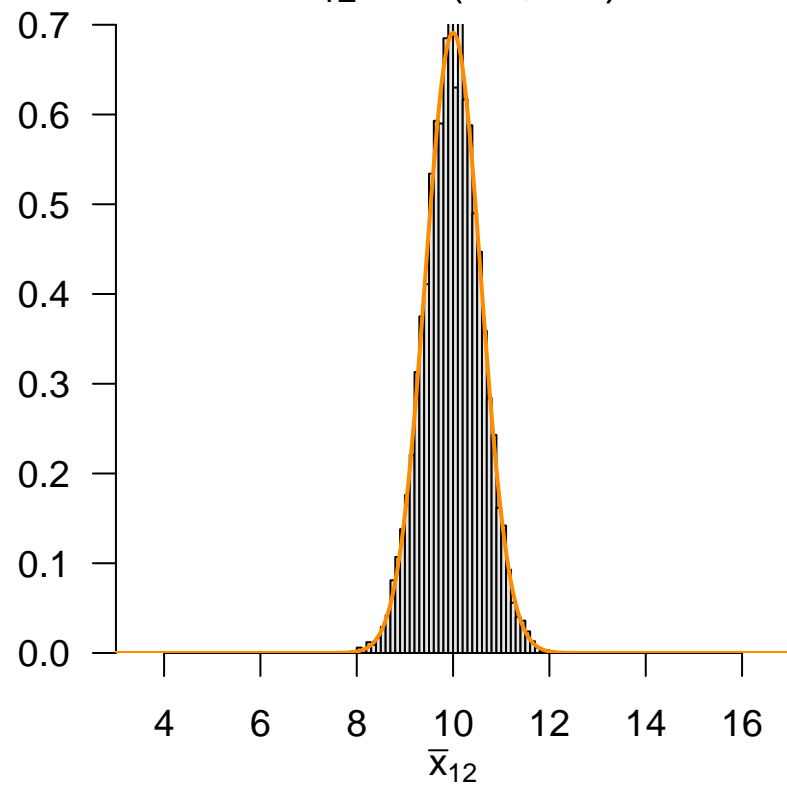


$X_i \sim N(10,4), i = 1, \dots, 12$



$\bar{X}_{12} \sim N(10, 1/3)$



$Z \sim N(0,1)$

