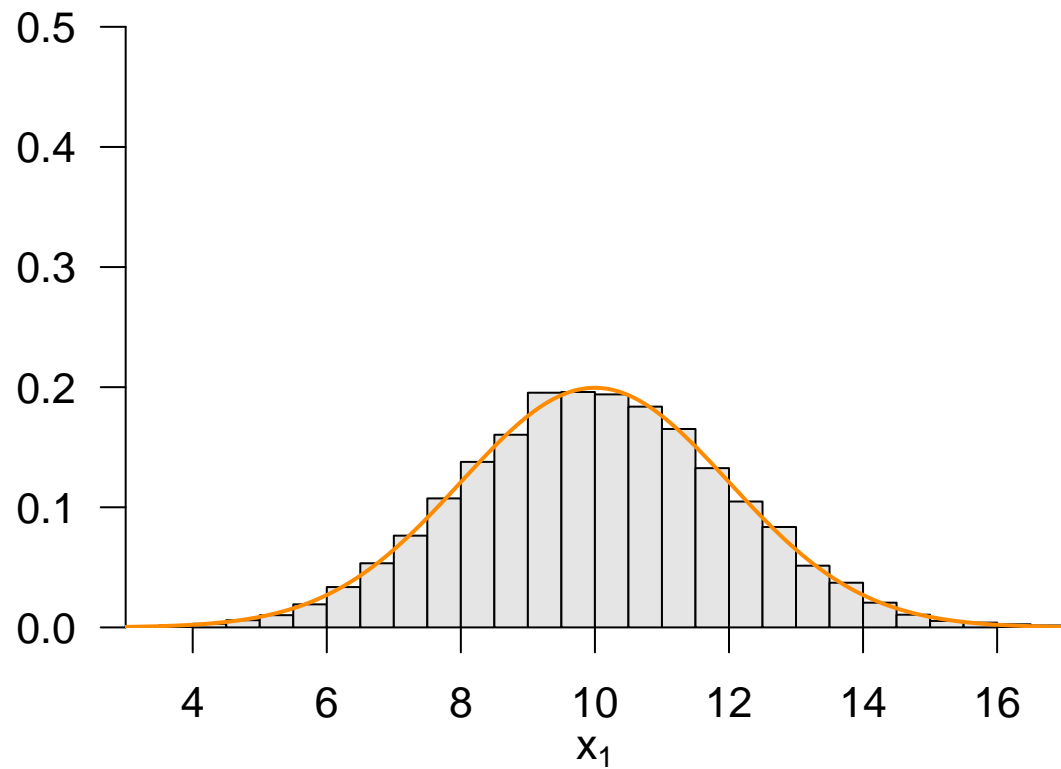
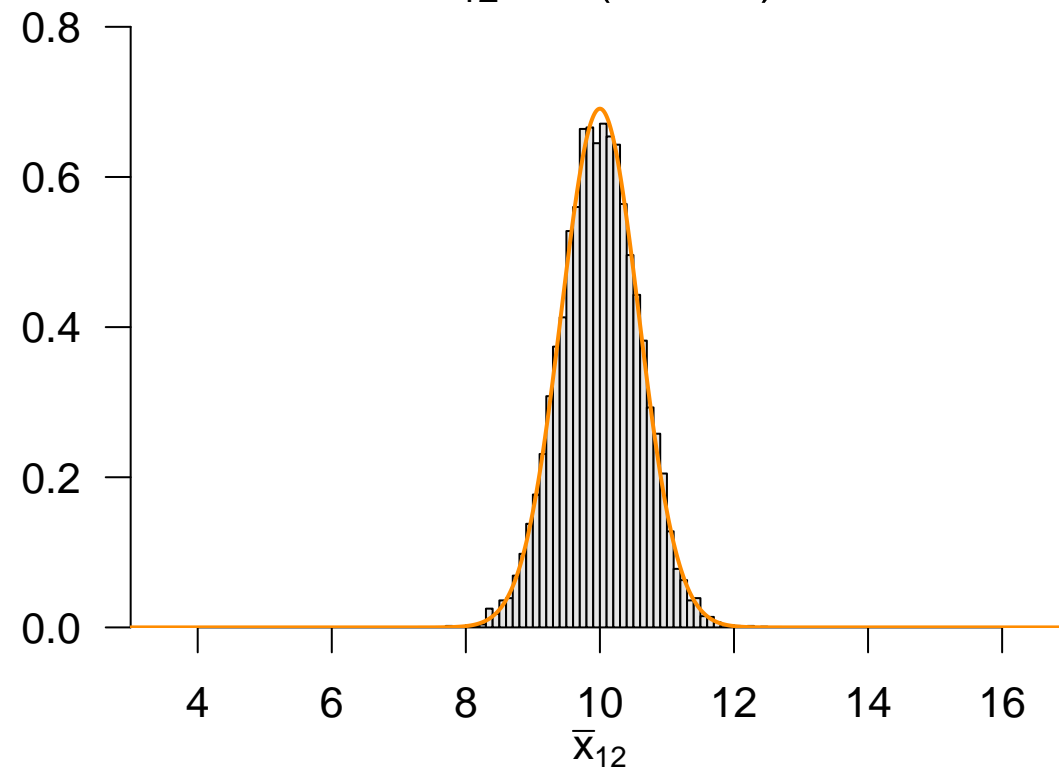


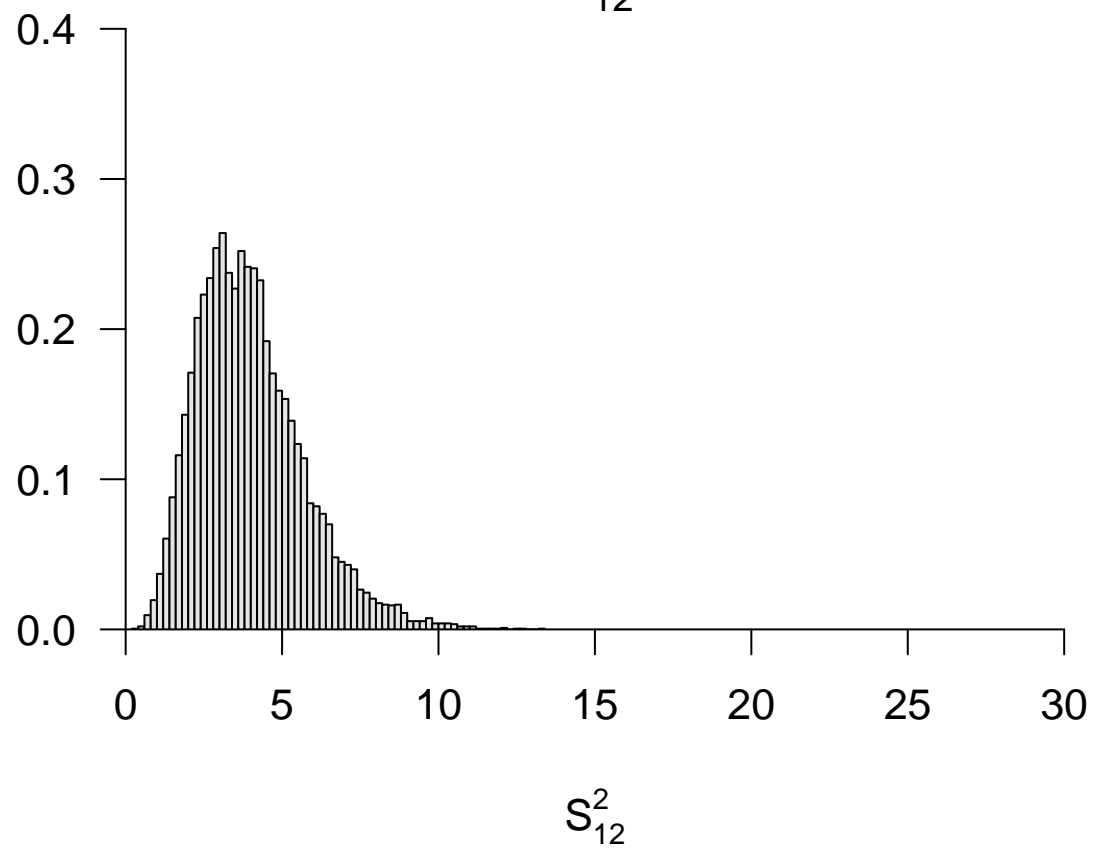
$$X_i \sim N(10, 4), i = 1, \dots, 12$$



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



$$S_{12}^2$$



$$U \sim \frac{11}{4} S_{12}^2$$

