9. Xi+1-Xi~ N(0,202 E[(Xi+1-Xi)] = 202 $E(c\sum_{i=1}^{n}(x_{i+1}-x_i)^2)=c\cdot(n-1)\cdot 2\sigma^2=\sigma^2$ 10. $E(\bar{X}) = \lambda \cdot D(\bar{X}) = \frac{1}{2} \cdot E(\bar{X}^2) = \lambda^2 + \frac{1}{2}$ $\therefore \lambda^2 = E(\overline{X}^2) - D(\overline{X}) \cdot E(\overline{X}^2) - \frac{E(\overline{X})}{n} = \lambda^2$ $\therefore \pi 1 \hat{R} \text{ 估计量} : \overline{X}^2 \cdot \overline{K}$ $\frac{|4.D(57) = D(\frac{1}{4}\sum_{i=1}^{n}(x_i-\mu)^2)}{\sum_{i=1}^{n}(x_i-\mu)^2} \sim \chi^2(n)$ = 2n, D(H \(\frac{1}{2}(xi-M)^2) = \frac{204}{9} 2 D(52) = ny · 04 > D(S1) i. s/2有效

