

$$\frac{\sum_{i=1}^n (\textcolor{red}{X}_i - \bar{X})(\textcolor{red}{X}_i - \bar{X})}{\sqrt{\sum_{i=1}^n (\textcolor{red}{X}_i - \bar{X})^2 \sum_{i=1}^n (\textcolor{red}{X}_i - \bar{X})^2}}$$