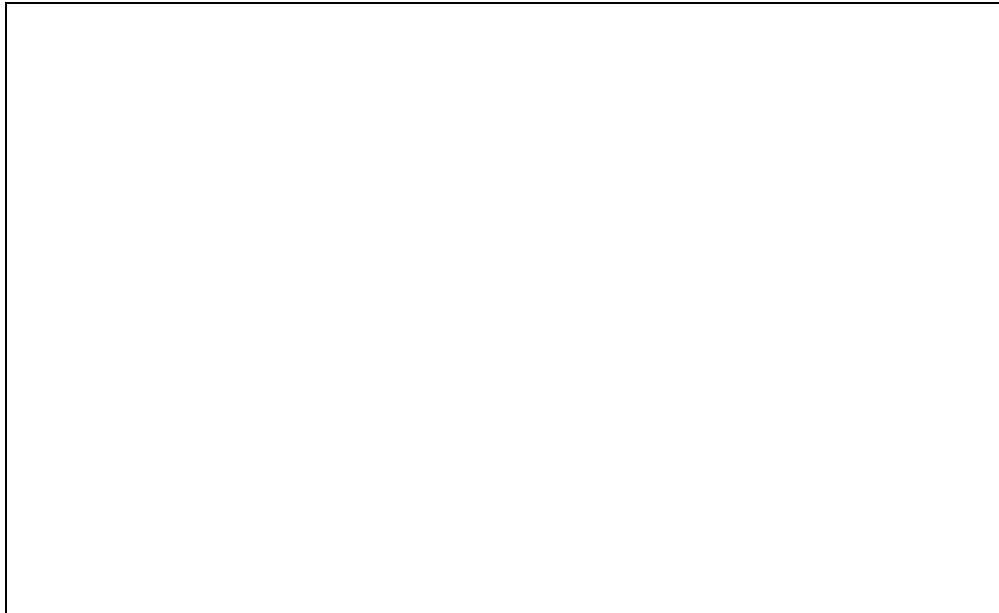


# 専門科目











$$f(x)=\frac{x-2}{2x+5}$$

$$f(x) = \log_3 x \qquad\qquad x > 0$$

$$f(x)=e^x\cos x \qquad\qquad e$$

$$\begin{aligned} C &= \frac{1}{3}Q^3 - 7\,Q^2 + 111\,Q + \frac{1}{3} \\ Q &= 100 - P \end{aligned}$$

$$R\qquad Q$$

$$\pi\qquad Q$$

$$Q^\ast$$

$$(x,y)=(x_i,y_i)\,(i=1,2,\,\cdots,10)$$

$$\begin{aligned} y-x && y=ax+b && a-b && a=r_{xy}\frac{\sigma_y}{\sigma_x} \\ b=\bar{y}-a\bar{x} && \sigma_{xy}=\frac{\sum_{i=1}^{10}x_iy_i}{10}-\bar{x}\bar{y} && && \\ \sigma_x{}^2=\frac{\sum_{i=1}^{10}x_i{}^2}{10}-\bar{x}^2 && \sigma_y{}^2=\frac{\sum_{i=1}^{10}y_i{}^2}{10}-\bar{y}^2 && \bar{x}=\frac{\sum_{i=1}^{10}x_i}{10} && \bar{y}=\frac{\sum_{i=1}^{10}y_i}{10} \\ r_{xy}=\frac{\sigma_{xy}}{\sigma_x\sigma_y}\left(-1\leq r_{xy}\leq 1,\ \sigma_x=\sqrt{\frac{\sum_{i=1}^{10}x_i{}^2}{10}-\bar{x}^2},\ \sigma_y=\sqrt{\frac{\sum_{i=1}^{10}y_i{}^2}{10}-\bar{y}^2}\right) && && && r_{xy} \\ \sum_{i=1}^{10} && \Sigma && && \end{aligned}$$

$$\textbf{- 6 -}$$