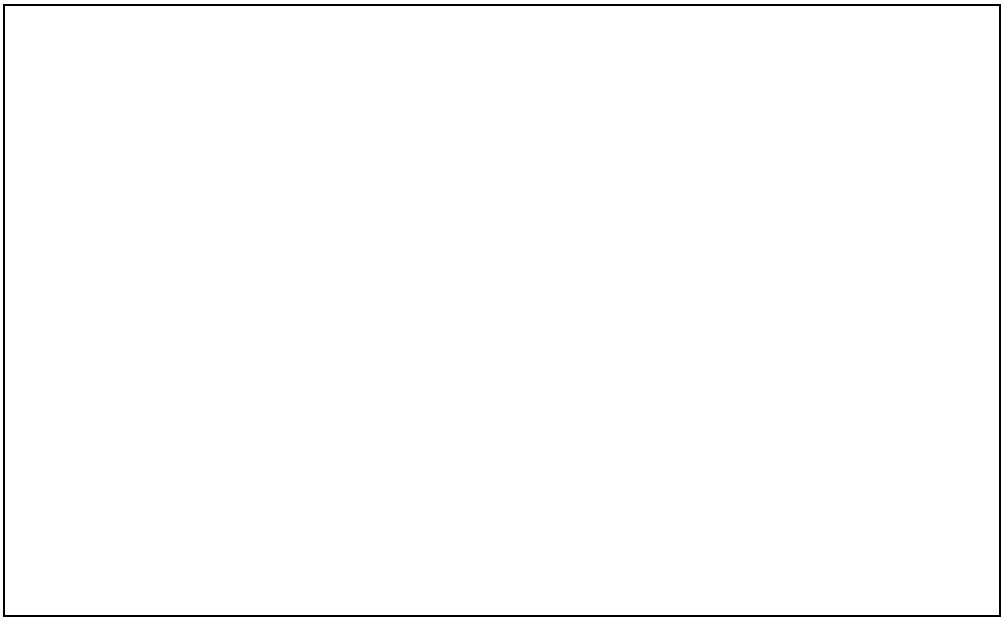
専門科目



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

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

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

$C = \frac{1}{3}Q^3 - 7\,Q^2 + 111\,Q + \frac{1}{3}$

$Q = 100 - P$

R Q

π Q

Q^*

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

y x $y = ax + b$ a b $a = r_{xy}\frac{\sigma_y}{\sigma_x}$

$b = \bar{y} - a\bar{x}$ $\sigma_{xy} = \frac{\sum_{i=1}^{10} x_i y_i}{10} - \bar{x}\bar{y}$

${\sigma_x}^2 = \frac{\sum_{i=1}^{10} {x_i}^2}{10} - \bar{x}^2$ ${\sigma_y}^2 = \frac{\sum_{i=1}^{10} {y_i}^2}{10} - \bar{y}^2$ $\bar{x} = \frac{\sum_{i=1}^{10} x_i}{10}$ $\bar{y} = \frac{\sum_{i=1}^{10} y_i}{10}$

$r_{xy} = \frac{\sigma_{xy}}{\sigma_x \sigma_y}\left(-1 \le r_{xy} \le 1,\ \sigma_x = \sqrt{\frac{\sum_{i=1}^{10} {x_i}^2}{10} - \bar{x}^2},\ \sigma_y = \sqrt{\frac{\sum_{i=1}^{10} {y_i}^2}{10} - \bar{y}^2}\right)$ r_{xy}

$\sum_{i=1}^{10}$ Σ