

$x^2 - ax + b$ $B = 2a, a$ $\frac{c}{a} = 2a^2$ $\frac{b}{a} = 2a^2$ $a^2 = \frac{b}{a}$ $\alpha = \frac{1}{2} \quad B = 2 \quad \rightarrow \quad \frac{a}{2} = \frac{1}{2} \quad \rightarrow a = 1$ $\alpha = -\frac{1}{2} \quad B = -2 \quad \rightarrow \quad \frac{a}{2} = -\frac{1}{2} \quad \rightarrow a = -1$ $ 1 - (-1) = 2$	۱
$\frac{1}{\sqrt{a}} + \frac{1}{\sqrt{b}} = d$ $\frac{\sqrt{a} + \sqrt{b}}{\sqrt{ab}} = d$ $\frac{a + b + 2\sqrt{ab}}{ab} = 2d$ $\frac{m+1}{2} + 2\sqrt{\frac{1}{34}} = 2d$ $\frac{m+1}{2} + 2\left(\frac{1}{9}\right) = 2d$ $m + 1 = 2d$ $m = -1$ $-m^2 + 2m + 2 = 0$ $p = \frac{2}{-1} = -2$	۲
$S = 1 \quad \alpha + \beta = 1$ $\beta = 1 - \alpha$ $\alpha(1 - \alpha) = -2 \rightarrow \alpha^2 - \alpha - 2 = 0$ $(\alpha - 2)(\alpha + 1) = 0$ $\alpha = 2 \quad \beta = -1$ $\alpha = -1 \quad \beta = 2$ $f(1) + k(-1) - 9(-1) - 2 = 0$ $-1 + k + 9 - 2 = 0$ $k = -6$	۳
$x^2 + 4x + a = 0$ $\frac{b}{a} = -4 \quad 2x^2 + 2B^2 = 12\sqrt{2} + 18$ $p = a$ $2x^2 + 2(-x - 4)^2 = 12\sqrt{2} + 18$ $2x^2 + 2x^2 + 16x + 32 = 12\sqrt{2} + 18$ $4x^2 + 16x + 14 = 12\sqrt{2}$ $4x^2 + 16x - 12\sqrt{2} = 0$ $-2x \pm \sqrt{4x^2 - 4(-12\sqrt{2})} = 0$ $-2x \pm \sqrt{4x^2 + 48\sqrt{2}} = 0$	۴
$x^2 - vx + a = 0$ $t^2 - vt - 5 = 0$ $49 + 20 = 69$ $t = \frac{v \pm \sqrt{v^2 + 20}}{2}$ $x = \frac{v \pm \sqrt{v^2 + 20}}{2}$ $x = \frac{v - \sqrt{v^2 + 20}}{2}$ $x = \frac{v + \sqrt{v^2 + 20}}{2}$ $x = -\sqrt{\frac{v^2 + 20}{2}} + \sqrt{\frac{v^2 + 20}{2}} = 0$ $p = \frac{(v + \sqrt{v^2 + 20})}{2}$	۵

$Yan^T = an + b$ $\frac{a}{Y}$ $\left[\frac{ab}{F} \right] = \left[\frac{-4}{F} \right]$ $= \boxed{-2}$	$Yan^T + an = Y$ $\frac{b}{a} = \frac{-a}{Y} = \frac{-1}{Y} \Rightarrow \frac{-1}{Y} + \frac{1}{Y} + \frac{1}{Y} = \frac{a}{Y} \Rightarrow a = 1$ $Yan^T + n - Y = 0$ $n^T + n - 1Y = 0$ $(n-1)(n+Y) = 0$ $\frac{1}{Y} = \frac{Y}{Y} \Rightarrow Y = 1$ $\frac{1}{Y} = \frac{Y}{Y} \Rightarrow Y = 1$ $\frac{1}{Y} = \frac{Y}{Y} \Rightarrow Y = 1$	6
$(YB^T + \alpha^T - B) = \frac{1V}{Y}$ $\alpha + B = \frac{a}{a} = 1$ $\alpha = 1 - B$ $YB^T + (1-B)^T - B = \frac{1V}{Y}$ $YB^T - YB + \frac{Y}{Y} = 0$	$Y - B^T - Y - B + 1 = 0$ $\alpha - B = \sqrt{5^T - 4P} = \sqrt{1 - 4\alpha B} = \sqrt{1 - 4(1-B)B}$ $\frac{4Y}{Y} = \sqrt{4B^T - 4B + 1} = ?$ $Y - B^T - Y - B + 1 = 0$ $4B^T - 4B + 1 = 0$ $4B^T - 4B + 1 = \frac{4}{a}$ $\frac{Y}{\sqrt{a}}$	7
$n^T = (a+1)n + a$ $\alpha, \alpha, Y \quad S = Y\alpha + Y = a+1$ $P = \alpha Y + Y\alpha = a$ $\alpha = 1$ $B = \alpha + Y = Y$ $S = 1 + Y = Y$ $P = 1 + Y = Y$	$n^T = (Y\alpha + 1)n + b = 0$ $S = Y(Y) + 1 = 1 \quad \alpha, \alpha, Y = 1$ $b = P = \alpha + Y = Y$ $\alpha = 1 \quad B = Y$ $P - P_1 = Y - Y = \boxed{Y}$ $\alpha = 1 \quad Y = 1$ $\alpha = 1 \quad Y = 1$ $\alpha = 1 \quad Y = 1$	8
$n^T + n - 1 - m^T = 0$ $\alpha^T + B^T = 5^T - YP = 1 - Y(-1 - m^T) = Y + Ym^T$ $\min(Ym^T + Y) \xrightarrow{m^T} \boxed{Y}$ $+ 0.1m^T \circledast$ $= m^T \min \alpha^T$		9
$A \begin{pmatrix} Y & Y \end{pmatrix} \quad Y + (-a) = -1 \min \quad \bullet - 1$ $B \begin{pmatrix} -a & Y \end{pmatrix}$ $\alpha^T + B^T = 5^T - YP = \left(\frac{-Y}{a}\right)^T - Y\left(\frac{a+1}{a}\right) = a \Rightarrow \boxed{a = \frac{-Y}{Y}}$ $a+1 = \frac{-Y}{Y} + 1 = \boxed{\frac{1}{Y}}$	$Y-1 = a(n-1) \Rightarrow Y = an^T + Yn + a + 1$ $Yan^T = -a$ $\boxed{a = \frac{-Y}{Y}}$ $\frac{1}{Y}$	10