

$x_0 \rightarrow \sqrt{a(x)}$
 $x_1 \rightarrow \sqrt{x(x+a)}$

$K_0, K_1 \rightarrow x_0 - x_1 - a$
 $n = 2$
 $m = 1 + 2 = 3$
 $A: \begin{vmatrix} 1 & 1 & 1 \\ -1 & 0 & 1 \\ 1 & -1 & 1 \end{vmatrix}$
 $R_{m+n} = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 1 \\ 0 & 0 \end{bmatrix}$

$P_2 \rightarrow x_0 \cap x_1 \leq \frac{a}{2} \rightarrow 0 \leq x \leq \frac{a}{2}$
 $x_0 \rightarrow \sqrt{a}$
 $x_1 \leq \frac{a}{2} \rightarrow \sqrt{\frac{a}{2}}$
 $f(x) = \sqrt{\frac{a^2}{2}} - \frac{a^2}{2} = 1 - \frac{a^2}{2}$
 $a \leq \sqrt{2}$
 $[a] \leq f$

$f'(x) \rightarrow \frac{2x^2 - 2x}{2x^2 - 1} + \frac{2x^2}{2x^2 - 1} = 0 \rightarrow x_0 = \dots$

1	+	+	+	+
2	+	+	+	+
3	+	+	+	+
4	+	+	+	+
5	+	+	+	+

$f'(x) \rightarrow \frac{2x^2 - 2x}{2x^2 - 1} - \frac{2x^2}{2x^2 - 1} = 0 \rightarrow x_0 = \dots$

$\frac{a}{2} - \frac{2}{2}$

$f(x) = ax^2 + bx + c = 0$
 $b^2 - 4ac > 0$
 $b^2 > 4ac$

$x_0 = 1 \rightarrow f(x) = a + b = 0 \rightarrow b = -a$
 $S = 1 \rightarrow \frac{-b}{a} = 1 \rightarrow b = -a$
 $b^2 + 4b = 0$

$f(x) = \frac{1}{2}x^2 - 1$
 $f'(x) = x = 0 \rightarrow x = 0$
 $f(0) = -1$
 $\min_{x \in [0, \sqrt{2}]} f(x) = -1$

1	+	+	+	+
2	+	+	+	+
3	+	+	+	+
4	+	+	+	+
5	+	+	+	+

$$x^2 \rightarrow x^2 + \frac{1}{2}x + b$$

$$x^2 \rightarrow -x^2 + \frac{1}{2}x + b \rightarrow f' = -2x + \frac{1}{2} = 0 \rightarrow x = \frac{1}{4}$$

$$A \left| \begin{array}{c} 1 \\ 1 \end{array} \right. \rightarrow +1 - \frac{1}{4} + b = 1 \rightarrow b = \frac{3}{4} \quad \frac{b}{a} = \frac{3/4}{1} = \frac{3}{4}$$

$$y' = 2x + 1 \rightarrow \begin{array}{c|c|c|c} x & 0 & \frac{1}{2} & 1 \\ \hline y & 1 & 2 & 3 \end{array} \rightarrow (a+1) \cdot \frac{1}{2} + a - 1 = 0 \rightarrow \frac{1}{2}a = \frac{1}{2} \rightarrow a = 1$$

$$y = \frac{1}{2}x + 1 \rightarrow x = -\frac{2}{1} = -2$$

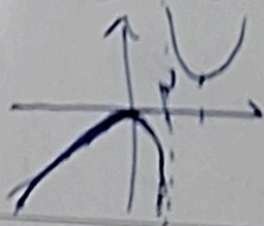
$$A \left| \begin{array}{c} 1 \\ 2 \end{array} \right. \rightarrow \frac{1}{2} - \frac{1}{2} + 1 = 0 \rightarrow a = 1$$

$$\frac{b}{a} = 1$$

$$Df = R - \{P\}$$

$$f' = \frac{2x(x-1) - 2x^2(x-1)^{-2}}{(x-1)^4} = \frac{x^2 - 2x^3}{(x-1)^4} = \frac{x^2(1-2x)}{(x-1)^4}$$

x	0	1/2	1	2
y	1	1/2	0	1
y	↘	↘	↘	↗



min $-\left[\frac{1}{2} \sqrt{1/2} \right]$

$$Df = R - \{ \pm \sqrt{1/2} \}$$

$$f' = \frac{2x(x-1) - 2x^2(x-1)^{-2}}{(x-1)^4} = \frac{2x - 2x^3}{(x-1)^4}$$

x	1/2	1/2	1/2	1/2
y	-1	-1	-1	-1
y	⋮	⋮	⋮	⋮

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$$\frac{2x(x-1) - 2x^2(x-1)^{-2}}{(x-1)^4}$$

1.