

$$f = \{(x, y) \mid (x, y) \in (m, x-1) \mid (m, x-1) \}$$

$$n^2 - n = 2 \rightarrow n^2 - n - 2 = 0 \rightarrow (n-2)(n+1) = 0 \rightarrow \begin{matrix} n=2 \\ n=-1 \end{matrix}$$

$$(-1, 2) \rightarrow (-1, 2)$$

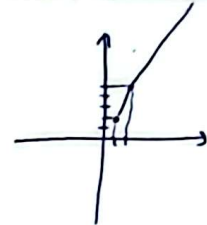
$$f = \{(x, y) \mid (x, y) \in (a, m-1) \mid (a, m-1) \}$$

$$m=2 \rightarrow a+2=1 \rightarrow a=-1$$

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$$f(x) = \begin{cases} x-1 & x \geq 1 \\ x+a & x < 1 \end{cases} \rightarrow (-\infty, 1) \rightarrow x+a < 1 \rightarrow a > 1$$

$$1+a \leq 1 \rightarrow a \leq 0$$



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$$f(x) = \begin{cases} x-1 & x \geq 1 \\ ax+a-1 & x < 1 \end{cases} \rightarrow (-\infty, 1) \rightarrow ax+a-1 < 1 \rightarrow a-1 < 2 \rightarrow a < 3$$



$$a < 3 \rightarrow 0 < a < 3$$

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$$y = x^2 + 2$$

$$\begin{cases} y_1 = x_1^2 + 2 \\ y_2 = x_2^2 + 2 \end{cases} \rightarrow x_1^2 = x_2^2 \rightarrow x_1 = \pm x_2$$

$$x = y^2 + 2 \rightarrow y^2 = x - 2 \rightarrow y = \sqrt{x-2}$$

$$\begin{cases} y = x^2 - 2x + 2 + 2 - 2 \\ y_1 = (x_1 - 2)^2 - 2 \\ y_2 = (x_2 - 2)^2 - 2 \end{cases} \rightarrow (x_1 - 2)^2 = (x_2 - 2)^2 \rightarrow x_1 = \pm x_2$$

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

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

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

$$y = \frac{2(x+2)}{(x+2)} = 2$$

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