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$$y = 2 - x$$

$$\begin{aligned}\gamma(x) &= f(x, 2-x) = \frac{1}{2}x^2 + (2-x)^2 - x - (2-x) \\ &= \frac{3}{2}x^2 - 4x + 2\end{aligned}$$

$$\gamma'(x) = 3x - 4 \quad \gamma'(x) = 0 \Leftrightarrow x = \frac{4}{3}$$

$$y = 2 - \frac{4}{3} = \frac{2}{3}$$

$$\left(\frac{4}{3}, \frac{2}{3}\right)$$

$$\begin{cases} f(0,0) = 0 \\ f(2,0) = 0 \\ f(0,2) = 2 \\ f(1, \frac{1}{2}) = -\frac{5}{4} \\ f(0, \frac{1}{2}) = -\frac{1}{4} \\ f(\frac{4}{3}, \frac{2}{3}) = -\frac{2}{3} \\ f(1,0) = -\frac{1}{2} \end{cases}$$

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