$$\begin{cases}
\theta_{1}(x,y) = 4x + 2y + 1 \\
g(x,y) = x^{2} + x - y + \frac{1}{4} = 0
\end{cases}$$

$$F(x,y) = 4x + 2y + 1 + 2(x^{2} + x - y + \frac{1}{4})$$

$$F'_{x} = 4 + 2(2x + 1) + 2(2x + 1) + 2(2x + 1) = 0 \quad 2x = -3 \quad x = -\frac{3}{2}$$

$$I \quad 4 + 2(2x + 1) = 0 \quad 4 + 2(2x + 1) = 0 \quad 2x = -3 \quad x = -\frac{3}{2}$$

$$I \quad 2 - 2 = 0 \quad 2 = +2$$

$$I \quad 4x^{2} + 4x^{2} + x - y + \frac{1}{4} = 0 \quad \frac{9}{4} - \frac{3}{2} - y + \frac{1}{4} = 0$$

$$\frac{5-3}{2} - y = 0 \quad y = 4$$

$$(-\frac{3}{2}, 1) - pobbitiohy back$$

$$\frac{9}{4} - \frac{3}{2} - 1 + \frac{1}{4} = 0 \Rightarrow b = 2(\frac{-3}{2}) + (-y^{\frac{1}{2}} = 0 - 2 = y)$$

$$g'(x, h(x)) = 2x + (-y^{\frac{1}{2}} = 0 \Rightarrow 2(\frac{-3}{2}) + (-y^{\frac{1}{2}} = 0 - 2 = y)$$

$$g''(x, h(x)) = 2x + (-y^{\frac{1}{2}} = 0 \Rightarrow y^{\frac{1}{2}} = 2$$

$$f'(x, h(x)) = 2y^{\frac{1}{2}} + (-y^{\frac{1}{2}} = 0 \Rightarrow y^{\frac{1}{2}} = 2$$

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$$f'(x, h(x)) = 2y^{\frac{1}{2}} + (-y^{\frac{1}{2}} = 0$$

maximum

$$F(x,y) = x + y - x^{2} - y^{2} = 0$$

$$F(x,y) = 4x^{3} + 4y^{3}y^{1} - 2x - 2yy^{1} = 0$$

$$\frac{4x^{3} - 2x}{4y^{3} + 2y} = y^{1} = \frac{x - 2x^{3}}{2y^{3} - y}$$

$$y^{1} = 0 = 0 \quad x - 2x^{3} = 0 \quad x - 2x^{3} = 0$$

$$y = 0 \quad y = \frac{1}{2}$$

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

$$F''(xy) = 12x^{2} + 4y^{2} \cdot 3 \cdot y^{1} \cdot y^{2} + 4y^{3} \cdot y^{1} - 2 - 2y^{1} - 2y^{1} \cdot y^{2} = 0$$

$$y^{1} = 0$$

$$12x^{2} + 4y^{3} \cdot y^{4} - 2 - 2yy^{4} = 0$$

$$6x^{2} + 2y^{3} \cdot y^{4} - 1 - yy^{4} = 0$$

$$2y^{3} \cdot y^{4} - yy^{4} = 1 - 6x^{2}$$

$$y^{4} = \frac{1 - 6x^{2}}{2y^{3} - y} = \frac{1 - 6x^{2}}{y(2y^{2} - 1)}$$

$$y'(0,0) = \text{hexistaje}$$

$$y'(0,1) = \frac{1}{-3} = -160 \text{ minimum/}$$

$$y'(0,-1) = \frac{1}{-3} = -160 \text{ maximum/}$$

$$y'(\frac{1}{2}, -\frac{1+12}{2}) = \frac{1-\frac{6\cdot 2}{4}}{2(-\frac{1+12}{2})^3+\frac{1+12}{2}} = \frac{-2}{2(-\frac{1+12}{2})^3+\frac{1+12}{2}} = \frac{-2}{2(-\frac{1+12}{2})^3+\frac{1+12}{2}} = \frac{-2}{2(-\frac{1+12}{2})^3+\frac{1+12}{2}} = 0 \text{ maximum}$$

$$y'(\frac{1+12}{2}, \frac{1+12}{2}) = \frac{-2}{1+12}(\frac{1+12}{2}, \frac{1+12}{2}) = \frac{2}{1+12}(\frac{1+12}{2}, \frac{1+12}{2}) = \frac{2}{1+12}(\frac{1+12}{2}, \frac{1+12}{2})$$