

 $x^2 = 5 - y^2$ $y + 1 = x^2$

6)

I + er 2:

$$X = \sqrt{5 - (7/4)^2} = \sqrt{3}/16 \approx 2.27$$

 $9 = 31/16 - 1 = 15/16 = 0.9375$

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I +er 3:

$$T + e : 3:$$

$$X = \sqrt{5 - (15/16)^2} = \sqrt{\frac{1055}{256}} \approx 2.03$$

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$$Y = \frac{1055}{256} - 1 = \frac{299}{256} \approx 3.12$$

$$\frac{\partial f_{10}}{\partial y} = 2y = 2(1.5) = 3$$

$$\frac{\partial f_{20}}{\partial x} = -2x = -3$$

$$\frac{\partial f_{20}}{\partial y} = 1$$

 $\frac{\partial f_{1,0}}{\partial x} = 2 \times = 2(1.5) = 3$

() $f_1(x,y) = x^2 + y^2 - 5$ $f_2(x,y) = y - x^2 + 1$

$$\begin{bmatrix} J \end{bmatrix} = \begin{bmatrix} 3 & 3 \\ -3 & 1 \end{bmatrix} \longrightarrow |JI| = J + 9 = 12$$

$$f_{1/0} = (1.5)^{2} + (1.5)^{2} - 5 = -.5$$

$$f_{2/0} = (1.5) - (1.5)^{2} + 1 = .25$$

$$f_{1} = (1.5)^{2} + (1.5)^{2} - 5 = -.5$$

$$f_{2} = (1.5) - (1.5)^{2} + 1 = .25$$

$$\times_{1} = 1.5 + 0.5(1) + .25(3) = 48$$

$$12$$

$$y_{1} = 1.5 - (0.25(3) - (-.5)(-3)) = 25$$

$$12$$

$$y = -1.6$$

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