Do manual calculations for two iterations.

Step 2: îlev-1

Step3:
$$\frac{\partial \xi}{\partial x} = 2x + 2(2) = 4$$

 $\frac{\partial \xi}{\partial y} = 2y = 2(3) = 6$
 $\frac{\partial \xi}{\partial y} = 2y = 2(3) = 6$

Steps:
$$\chi = \chi + d\chi = 2 - 0.4 = 1.6$$

 $y = y + \Delta y = 3 - 0.6 = 2.4$

sty 3

Step 3:
$$\frac{\partial f}{\partial x}|_{x=1.6} = 2(1.6) = 3.2$$

$$\frac{\partial f}{\partial y}|_{y=2.4} = 2(2.4) = 4.8$$

$$\frac{\partial f}{\partial y}|_{y=2.4} = -(0.1)(3.2) = 0.32$$

1.6

Step 4:
$$\Delta x = -\eta \frac{\partial f}{\partial x} = -(0.1)(3.2) = 0.32$$

$$\Delta y = -2 \frac{\partial f}{\partial y} = -(0.1)(4.8) = 0.48 \frac{0.3}{1.9}$$
Step 5: $\chi = \chi + 0\chi = 0.48 \frac{0.4}{2.2}$

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