Assignment
$$\vartheta$$
: Manual calculations:-

Step ϑ : $f(x,y) = x + y + 10$
 $calculating$ derivatives

 $\frac{\partial f}{\partial x} = \Im x$
 $\frac{\partial f}{\partial y} = \Im y$

Step ϑ : Initialising parameters

$$x = 1$$

$$y = -1$$

$$1e + y = 1$$

$$epochs = \vartheta$$

Step ϑ : $\frac{\partial f}{\partial x} |_{x=1} = \Im(1) = \Im$

$$\frac{\partial f}{\partial y} |_{y=1} = \Im(1) = \Im$$

Step ϑ : $\Delta x = -2 \Im f = -(0 \cdot 1) \times \Im = -0 \cdot \Im$

$$\Delta y = -7 \Im f = (0 \cdot 1) \times (-2) = 0 \cdot \Im$$

Step ϑ : $x = x + \Delta x$

$$= 1 + (-0 \cdot \Im) = 0 \cdot \Re$$

$$y = y + \Delta y$$

$$= 1 + (0 \cdot \Im) = 0 \cdot \Re$$

Step ϑ : $1e(x) = 1e(x) = 1e(x) + 1 + 1$

$$\vartheta = 1 + (0 \cdot \Im) = 0 \cdot \Re$$

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$$\vartheta$$
: $1e$

Step 3:
$$\frac{\partial f}{\partial x}|_{x=0.8} = \partial(0.8) = 1.6$$

$$\frac{\partial f}{\partial y}|_{y=-0.8} = \partial(-0.8) = -1.6$$
Step 4: $x=x+4x=0.8-0.6=0.64$

$$y=y+xy=-0.8+0.6=-0.64$$
Step 5: $(-0.8) = 0.64$

$$y=y+xy=-0.8+0.6=-0.64$$

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