$$\begin{cases}
\frac{\partial f}{\partial x_{1}} \\ \frac{\partial f}{\partial x_{2}} \\ = \begin{cases} 6x_{1} + 4x_{2} + 4x_{1}x_{2} + 5x_{1} + 6 \\ 4x_{1} + 4x_{2} \\ 4x_{1} + 4x_{2} \\ = 0
\end{cases}$$

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$$\begin{bmatrix} \chi_1 \\ \chi_2 \end{bmatrix} = \underbrace{5} \begin{bmatrix} 1 \\ -1 \end{bmatrix}$$

$$6x_{1} + 4(-x_{1}) -5 = 0$$

$$2x_{1} - 5 = 0$$

$$x_{1} = 5/2$$

$$x_{2} = -5/2$$

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$$\frac{\partial f}{\partial x_1} \left(4x_1 + 4x_2 - 5 \right) = 6$$

$$\frac{\partial f}{\partial x_2} \left(4x_1 + 4x_2 \right) = 9$$

$$\frac{1}{16} \left(\frac{1}{16} + \frac{1}{16} + \frac{1}{16} + \frac{1}{16} \right) = 6$$

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$$\frac{1}{16} \left(\frac{1}{16} + \frac{1}{1$$

2)
$$f(x) = Sin(x) + 0.3x$$

 $\partial f(0x = cos(x) + 0.3 = 0$
 $cos^{-1}(-0.3) = 1.87549$