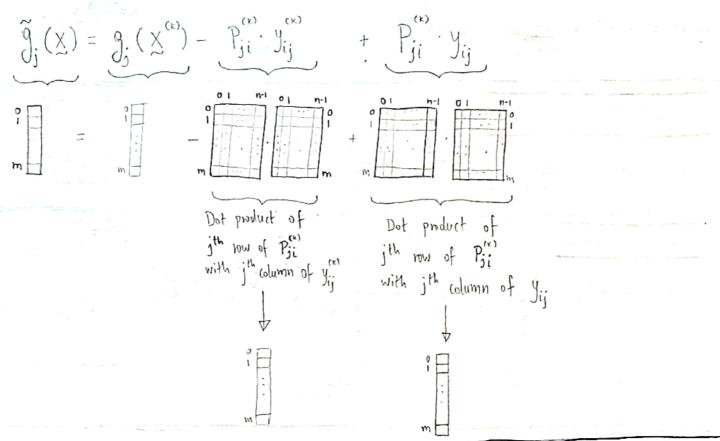
$$\begin{split} \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) \\ \widetilde{f}_{n}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x - x^{(n)}) + \frac{\partial f}{\partial x} \Big|_{X^{(n)}} \cdot (x -$$

Scanned with CamScanner

Multiple Functions (g;) and Variables (X;)



$$\widetilde{g}_{0Q}(\underline{x}) = g(\underline{x}^{(\kappa)}) + \sum_{i=1}^{n} \frac{\partial g}{\partial y_{i}} \Big|_{\underline{x}^{(\kappa)}} \cdot \frac{\partial T}{\partial y_{i}} \Big|_{\underline{y}^{(\kappa)}} \cdot (y_{i} - y_{i}^{(\kappa)})^{2} + \frac{1}{2} \sum_{i=1}^{n} \frac{\partial^{2} g}{\partial y_{i}^{2}} \Big|_{\underline{x}^{(\kappa)}} \cdot (y_{i} - y_{i}^{(\kappa)})^{2} = >$$

$$\widetilde{g}_{0Q}(\underline{x}) = g(\underline{x}^{(\kappa)}) + \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot (y_{i} - y_{i}^{(\kappa)}) + \frac{1}{2} \sum_{i=1}^{n} Q_{i}^{(\kappa)} \cdot (y_{i} - y_{i}^{(\kappa)})^{2} = >$$

$$\widetilde{g}_{0Q}(\underline{x}) = g(\underline{x}^{(\kappa)}) - \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot (y_{i} - y_{i}^{(\kappa)}) + \frac{1}{2} \sum_{i=1}^{n} Q_{i}^{(\kappa)} \cdot (y_{i}^{(\kappa)})^{2} + \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot y_{i} - \sum_{i=1}^{n} Q_{i}^{(\kappa)} \cdot y_{i}^{(\kappa)} \cdot y_{i}^{2}$$

$$\widetilde{g}_{0Q}(\underline{x}) = g(\underline{x}^{(\kappa)}) - \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot y_{i}^{(\kappa)} + \frac{1}{2} \sum_{i=1}^{n} Q_{i}^{(\kappa)} \cdot (y_{i}^{(\kappa)})^{2} + \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot y_{i} - \sum_{i=1}^{n} Q_{i}^{(\kappa)} \cdot y_{i}^{(\kappa)} \cdot y_{i}^{2}$$

$$\widetilde{g}_{0Q}(\underline{x}) = g(\underline{x}^{(\kappa)}) - \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot y_{i}^{(\kappa)} + \frac{1}{2} \sum_{i=1}^{n} Q_{i}^{(\kappa)} \cdot (y_{i}^{(\kappa)})^{2} + \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot y_{i} - \sum_{i=1}^{n} Q_{i}^{(\kappa)} \cdot y_{i}^{(\kappa)} + \frac{1}{2} \sum_{i=1}^{n} Q_{i}^{(\kappa)} \cdot y_{i}^{(\kappa)}$$

$$\widetilde{g}_{0Q}(\underline{x}) = g(\underline{x}^{(\kappa)}) + \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot (y_{i} - y_{i}^{(\kappa)}) + \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot (y_{i} - y_{i}^{(\kappa)})^{2} + \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot y_{i}^{(\kappa)} - \sum_{i=1}^{n} Q_{i}^{(\kappa)} \cdot y_{i}^{(\kappa)}$$

$$\widetilde{g}_{0Q}(\underline{x}) = g(\underline{x}^{(\kappa)}) + \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot (y_{i} - y_{i}^{(\kappa)}) + \sum_{i=1}^{n} P_{i}^{(\kappa)} \cdot (y_{i} - y_{i}^{(\kappa)})^{2} + \sum_{i=1}$$