$$\frac{2 \operatorname{mid}_{0}}{2 \operatorname{da}_{0}} = \frac{1}{2} \left[\frac{1}{2} \cdot (mx_{i} + 5) \right]^{2} = \frac{1}{2} \left[\frac{1}{2} \cdot (mx_{i} + 5) \right$$

$$= \frac{1}{N} \sum_{i=1}^{N} 28(5) \cdot \left[\frac{94i}{95} - \frac{9mx_i}{95} - \frac{95}{95} \right] =$$

$$= \frac{2}{N} \sum_{i=1}^{N} 8(5) \cdot \left[0 - 0 - 1 \right] = -\frac{2}{N} \sum_{i=1}^{N} 8(5) =$$

$$= -\frac{2}{N} \sum_{i=1}^{N} \left[7i - (mx_i + 5) \right] = -\frac{2}{N} \sum_{i=1}^{N} (9i - 9i)$$

$$= -\frac{2}{N} \sum_{i=1}^{N} (9i - 9i)$$

$$= -\frac{2}{N} \sum_{i=1}^{N} (9i - 9i)$$

$$\frac{\partial M G_{\bar{e}}}{\partial M} = \frac{1}{N} \sum_{i=1}^{N} \frac{\partial}{\partial M} g(g(M)) = \frac{1}{N} \sum_{i=1}^{N} \frac{g(g(M))}{\partial M} \cdot \frac{\partial g(M)}{\partial M}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial g(M)} \cdot \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(M)}{\partial M}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial g(M)} \cdot \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(M)}{\partial M}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(M)}{\partial M} \cdot \frac{\partial g(M)}{\partial M}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(G(M))}{\partial M}$$

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$$= \frac{1}{N} \sum_{i=1}^{N} \frac{\partial g(g(M))}{\partial M} \cdot \frac{\partial g(G$$

 $=-\frac{2}{N}\sum_{i=1}^{N}x_{i}\left[q_{i}-(mx_{i}+b)\right]=-\frac{2}{N}\sum_{i=1}^{N}x_{i}\left(q_{i}-\hat{q}_{i}\right)$