Task!

1. 
$$dE(\theta) = d = 1 = \frac{m}{d\theta} (\theta \Delta R_i^{id} - \Delta R_i)^2$$

$$\theta = \frac{\sum_{i=1}^{m} (SR_i SR_i^{id})}{\sum_{i=1}^{m} (SR_i^{id})}$$

2. 
$$\frac{d E(Q_{0}, Q_{1})}{d Q_{0}} = \frac{d}{d Q_{0}} \frac{1}{m} \sum_{k=1}^{m} (Q_{0} + Q_{1} \circ R_{1}^{k} - \Delta R_{1}^{k})^{2}$$

$$= \frac{1}{m} \sum_{k=1}^{m} 2(Q_{0} + Q_{1} \circ R_{1}^{k} - \Delta R_{1}^{k})$$

$$= \frac{2}{m} \sum_{k=1}^{m} (Q_{0} + Q_{1} \circ R_{1}^{k} - \Delta R_{1}^{k}) + 2Q_{0}$$

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$$Q_{1} = \sum_{k=1}^{m} (Q_{1} \circ R_{1}^{k} - \Delta R_{1}^{k}) + MQ_{0}$$

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$$O \stackrel{!}{=} \frac{2}{m} \stackrel{\mathcal{F}}{\underset{i=1}{\mathbb{F}}} [\Theta_{o} \wedge R_{i}^{id} + \Theta_{i} \wedge R_{i}^{id^{2}} - A R_{i} \wedge R_{i}^{id})$$

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$$O = \stackrel{\mathcal{F}}{\underset{i=1}{\mathbb{F}}} (A_{i} \wedge R_{i}^{id} - \Theta_{i} \wedge R_{i}^{id^{2}})$$

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