2. 
$$L[\phi] = \sum_{i=1}^{J} \ell_{i} = \sum_{i=1}^{J} (f[x_{i}, \phi] - y_{i})^{2}$$

$$= \sum_{i=1}^{J} (\phi_{0} + \phi_{1}x_{i} - y_{i})^{2}, \qquad (6.5)$$

$$\frac{\partial L}{\partial \phi_{0}} = \frac{\Xi}{1} 2 (\phi_{1}, x_{1}, y_{1})$$

$$\frac{\partial L}{\partial \phi_{0}} = \frac{\Xi}{1} 2 x_{1} (\phi_{0} + \phi_{1}x_{1} - y_{1})^{2}, \qquad (6.5)$$

$$\frac{\partial L}{\partial \phi_{0}} = \frac{\Xi}{1} 2 x_{1} (\phi_{0} + \phi_{1}x_{1} - y_{1})$$

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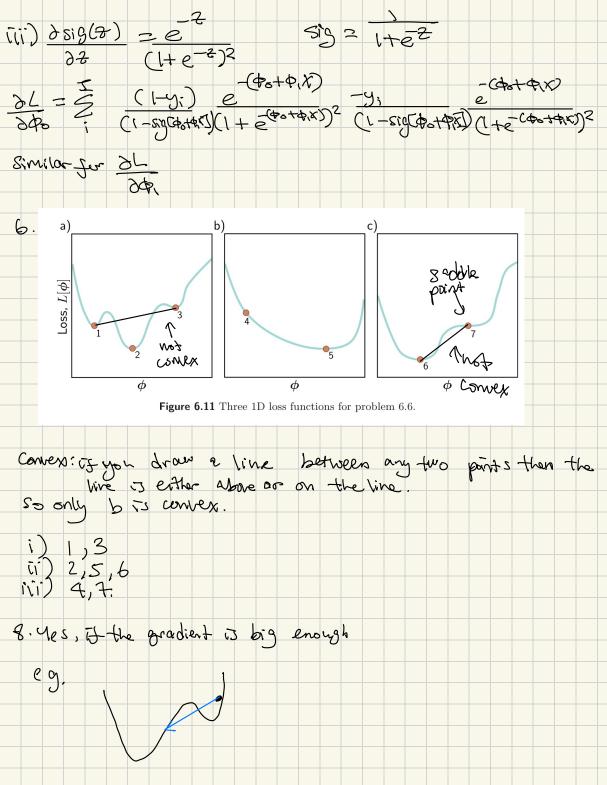
$$\frac{\partial L}{\partial \phi_{0}} = \frac{\Xi}{1} 2 x_{1} (\phi_{0} + \phi_{1}x_{1} - y_{1})$$

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$$\frac{\partial L}{\partial \phi_{0}} = \frac{\Xi}{1} 2 x_{1} (\phi_{0} + \phi_{0} + y_{1})$$

$$\frac{\partial L}{\partial \phi_{0}} = \frac{\Xi}{1} 2 x_{1} (\phi$$



W.  $M_0 = 0$   $M_1 = \beta M_0 + C(\beta) \frac{\partial L(\phi)}{\partial \phi} = C(\beta) \frac{\partial L(\phi)}{\partial \phi}$   $M_2 = \beta(M_1) + (1-\beta) \frac{\partial L(\phi)}{\partial \phi} \frac{\partial L(\phi)}{\partial \phi}$   $= \beta((1-\beta)\partial L(\phi) + (1-\beta) \frac{\partial L(\phi)}{\partial \phi}$   $= \beta((1-\beta)\partial L(\phi) + \beta((1-\beta)) \frac{\partial L(\phi)}{\partial \phi}$   $= \beta^2 (1-\beta) \frac{\partial L(\phi)}{\partial \phi} + \beta((1-\beta)) \frac{\partial L(\phi)}{\partial \phi}$   $= \beta^2 (1-\beta) \frac{\partial L(\phi)}{\partial \phi} + \beta((1-\beta)) \frac{\partial L(\phi)}{\partial \phi}$   $= \beta^2 (1-\beta) \frac{\partial L(\phi)}{\partial \phi} + \beta((1-\beta)) \frac{\partial L(\phi)}{\partial \phi}$   $= \beta^2 (1-\beta) \frac{\partial L(\phi)}{\partial \phi} + \beta((1-\beta)) \frac{\partial L(\phi)}{\partial \phi}$