

3 Math

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$$f(x, z, a, b) = y = (4ax^2 + a) + 3 + \sigma(z) + (\sigma(b))^2$$

$$\frac{\partial y}{\partial x} = 8ax$$

$$\frac{\partial y}{\partial z} = \sigma'(z)$$

$$\frac{\partial y}{\partial a} = 4x^2 + 1$$

$$\frac{\partial y}{\partial b} = 2\sigma(b) \cdot \sigma'(b)$$