Date: _____

Update parameteres

$$M_1 = M_1 - \alpha \times \frac{\partial J}{\partial M_1}$$
$$= 1 - 0.1 \times (-2) = 1 + 0.2 = 1.2$$

$$M_2 = M_2 - \alpha \frac{\partial J}{\partial M_2}$$
$$= 2 - 0.1 \times (-3) = 2 + 0.3 = 2.3$$

$$b = b - \alpha \times \frac{\partial J}{\partial b}$$
$$= 1 - 0.1 \times (-1) = 1 + 0.1 = 1.1$$

So the match is

$$M_1 = 1.2, \quad M_2 = 2.3, \quad b = 1.1$$