polynomial Regression model:

	0
×	Y
7.6	157
7.1	174

step 1: Read dataset, n=0.2, epochs=1, m=1, m=1, c=1

$$\frac{\partial \mathcal{E}}{\partial \mathcal{E}} = -\left[9i - m_2 x_i^2 - m_1 x_i - c\right]$$

$$= -\left[157 - (1)(4 \cdot 6)^2 - (1)(4 \cdot 6) + 1\right]$$

$$\frac{\partial \mathcal{E}}{\partial \mathcal{E}} = -92.64$$

$$SHEP F: \Delta m_1 = -0.06 = -(0 \cdot 2)(-5350.88) = 1070.176$$

$$\Delta m_2 = -0.06 = -(0 \cdot 2)(-5350.88) = 1070.176$$

$$\Delta C = -0.06 = -(0 \cdot 2)(-92.64) = 18.52$$

$$SHEP 8: m_1 = m_1 + \Delta m_1 = 1.7140.81 = 141.81$$

$$m_2 = m_2 + \Delta m_3 = 1.7140.81 = 141.81$$

$$e = c + \Delta c = -1.718.52 = 17.52$$

$$SHEP 9: Sample = 1.2171 = 1.71 = 2.07 = 1.071.17$$

$$e = 1071.17 (7.1)^2 + (141.81)(7.7) + (7.52)$$

$$= 5351.701$$

$$SHEP 5: \mathcal{E} = V_2 (y_1 - y_1)^2 = \frac{1}{2} (174 - 53511.70)^2$$

$$\mathcal{E} = 142.24.55121$$

$$SHEP 6: \frac{\partial \mathcal{E}}{\partial m_1} = -\left[y_1 - m_2 x_1^2 - m_1 x_1 - c\right] x_1$$

$$= -\left[174 - (1074.17)(7.1)^2 - (141.81)(7.1)^2 + (141.81)(7.1)^2 + (17.52)(7.1) + (17.52)(7.1) + (17.52)(7.1) + (17.52)(7.1) + (17.52)(7.1)$$

$$= -\left[174 - 53997.67 - 1006.85 - 17.52\right](7.1)$$

$$= -\left[-54848.04\right] [7.1]$$

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$$\frac{d\varepsilon}{m_2} = -\left[ y_1 - m_2 x_1^2 - m_1 x_1^2 - \zeta \right] x_1^2$$

$$= -\left[ -548489.69 \right]$$

$$= -\left[ -54848.04 \right]$$

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$$= -14889.69$$
Step 7:  $\Delta m_1 = -n \frac{d\varepsilon}{dm_1} = -(0.2) \left( \frac{389421.089}{21.089} \right)$ 

$$= -34889.21$$

$$\Delta m_2 = -n \frac{d\varepsilon}{dm_1} = -(0.2) \left( \frac{2464889.69}{21.089} \right)$$

$$= -552977.93$$

$$Ac = -n \frac{d\varepsilon}{d\varepsilon} = -(0.2) \left( \frac{54848.94}{21.089} \right)$$

$$= -10969.60$$
Step 8:  $m_1 = m_1 + \Delta m_1 = 141.81 + 77884.21$ 

$$= -77742.4$$

$$m_2 = m_2 + \Delta m_2 = 1071.17.552977.93$$

$$= -551906.76$$

$$c = c + \Delta c = 17.52 - 10969.60 = -10952.08$$
Step 9: Sample  $i = i+1 = 2+1=3$   $4i \le n_3 = n_0$ 
step 10:  $i+e=2$  then  $i+1=1$  and  $i+1$  step 10:  $i+e=2$  then  $i+1=2$  th