

| 7a) | Date       | Time | load       |
|-----|------------|------|------------|
|     | 01/09/2018 | 0:00 | 5551.82208 |
|     | 01/09/2018 | 1:00 | 4983.17184 |

| day 1 (x)  | day - 2 (y) |
|------------|-------------|
| 5551.82208 | 4931.26380  |
| 4983.17184 | 4775.53968  |

Initial.

$$\eta = 0.01 \quad \text{epochs} = 2 \quad m = 1 \quad c = -1 \quad \gamma = 0.9$$

$$v_m = 0 \quad v_c = 0$$

$$y = (1)(5551.82208) - 1 = 5550.82208$$

$$\frac{\partial E}{\partial m} = -1 \left( 4931.26380 - 1(5551.82208) + 1 \right)^* (5551.82208)$$

$$= -1((-619.55828)^* (5551.82208))$$

$$= + \pounds 3439677.34$$

$$\frac{\partial E}{\partial c} = -1(-619.55828)$$

$$= .619.55828$$



$$V_m = (0.9)(0) - (0.01)(3439677.34) \\ = -34396.7734$$

$$V_c = (0.9)(0) - (0.01)(619.55828) \\ = -6.1955828$$

$$\text{degree} = 2$$

$$\text{degree } m = 1 + (-34396.7734)$$

$$= -34395.7734$$

$$c = -1 + (-6.1955828)$$

$$= -7.1955828$$

$$i = |H| = 2$$

$$y = (-34395.7734)(4983.17184) +$$

$$(-7.1955828)$$

$$= -171400049 - 7.1955828$$

$$= -171400056.1955828 / 171400056$$



$$\frac{\partial E}{\partial m} = (4775.53968 - (-34395.7734)(4983.17184) + 7.1955828) \cdot 4983.17184$$

$$= -(4775.53968 + 171400049 + 7.1955828) \cdot 4983.17184$$

$$= -(171404817) \cdot 4983.17184$$

$$= -8.54139657e11$$

$$\frac{\partial E}{\partial C} = -171404817$$

$$V_m = (0.9)(-34395.7734) - (0.01)(-8.54139657e11)$$

$$= -30956.1961 + 8.54139657e9 = 8.54139657e9$$

$$V_C = (0.9)(-6.1955828) - (0.01)(-171404817)$$

$$= -5.57602452 + 1714048.17$$

$$= 1714042.59$$



$$m = -34395.7734 + (8.54139657e9) \\ = 8.54136217e9$$

$$v = -7.1955828 + (1714042.59) \\ = 1714035.39$$