

Asst

Assignment 4

$$10m_1 - 2m_2 + 1m_3 = 9$$

$$-2m_1 + 10m_2 + 2m_3 = 12$$

$$-2m_1 - 5m_2 + 10m_3 = 18$$

$$M_1 = 0.2m_2 - 0.1m_3 + 0.9$$

$$M_2 = 0.2m_1 + 0.2m_3 + 1.2$$

$$M_3 = 0.2m_1 + 0.5m_2 + 1.8$$

$$M_0 = [0, 0, 0,]$$

1st Iteration

$$M_1 = 0.2(0) - 0.1(0) + 0.9$$

$$M_1 = 0.9$$

$$M_2^1 = 0.2(0) + 0.2(0) + 1.2$$

$$M_2 = 0.2$$

$$M_3 = 0.2(0) + 0.5(0) + 1.8$$

$$M_3 = 1.8$$

2nd Iteration

$$M_1^2 = 0.2(1.2) - 0.1(1.8) + 0.9$$

$$M_1^2 = 0.96$$

$$M_2^2 = 0.2(0.9) + 0.2(1.8) + 1.2$$

$$M_2^2 = 1.74$$

$$M_3^2 = 0.2(0.9) + 0.5(1.2) + 1.8$$

$$M_3^2 = 2.58$$

3rd Iteration

$$M_1^3 = 0.2(1.74) - 0.1(2.58) + 0.9$$

$$M_1^3 = 0.99$$

$$M_2^3 = 0.2(0.96) + 0.2(2.58) + 1.2$$

$$M_2^3 = 1.908$$

$$M_3^3 = 0.2(0.90) + 0.5(1.90) + 1.8$$

$$M_3^3 = 2.802$$