| 4 2 -2|

A = |-2 8 1|

| 2 4 -4|

Starting solution: x = (1, 1, 1)T

1) Get the mth iteration of x

Xm = Am(X0) where x0 is our initial guess

Normalise vector by dividing each element by largest

| 1 1 1|

X1 = A(X0) = | 4 2 -2| |

|-2 8 1| |

| 2 4 -4| |