Problem 1 - Consensus

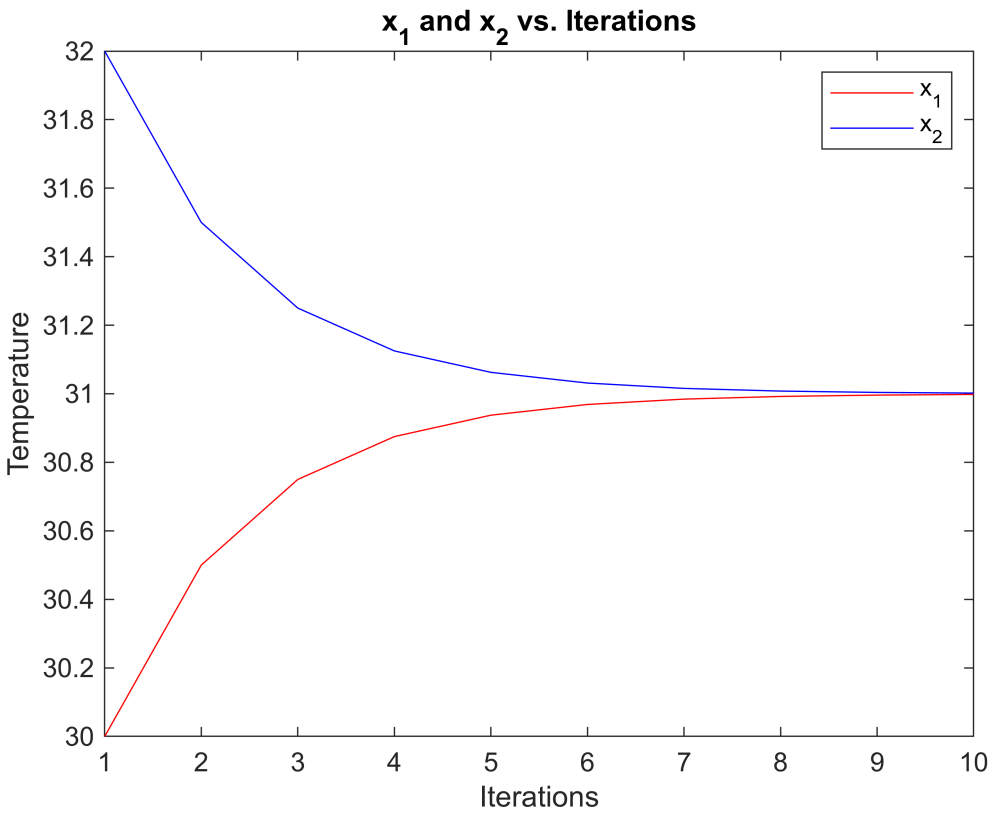
```
X = zeros(2,10);

X(:,1) = [30;32];

w = 0.25;
A = [1-w w; w 1-w];

for k = 1:size(X,2)-1
    X(:,k+1) = A * X(:,k);
end

plot(X(1,:),"r")
hold on
plot(X(2,:),"b")
legend(["x_1" "x_2"])
title("x_1 and x_2 vs. Iterations")
xlabel("Iterations")
ylabel("Temperature")
hold off
```



Problem 2 - Statics

```
A = [cosd(60) -cosd(60); sind(60) sind(60)];
```

```
M = inv(A) * [0; -10]
```

```
M = 2×1
   -5.7735
   -5.7735
```