

Matlab Pattern Classification – 2

Solve Example 3.3 (Slide 22) using Matlab.

```
X = [.4 .5 1; .6 .5 1; .1 .4 1; .2 .7 1; .3 .3 1; ...  
     .4 .6 1; .6 .2 1; .7 .4 1; .8 .6 1; .7 .5 1];  
y = [1 1 1 1 1 -1 -1 -1 -1 -1]';  
hold on;  
gscatter(X(:,1), X(:,2), y, 'rg', 'ox', 10);  
A = X' * X;  
B = X' * y;  
w = inv(A)*B;  
f = sprintf('0 = %g*x+%g*y+%g', w(1), w(2), w(3));  
ezplot(f, [0 1 0 1]);
```

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