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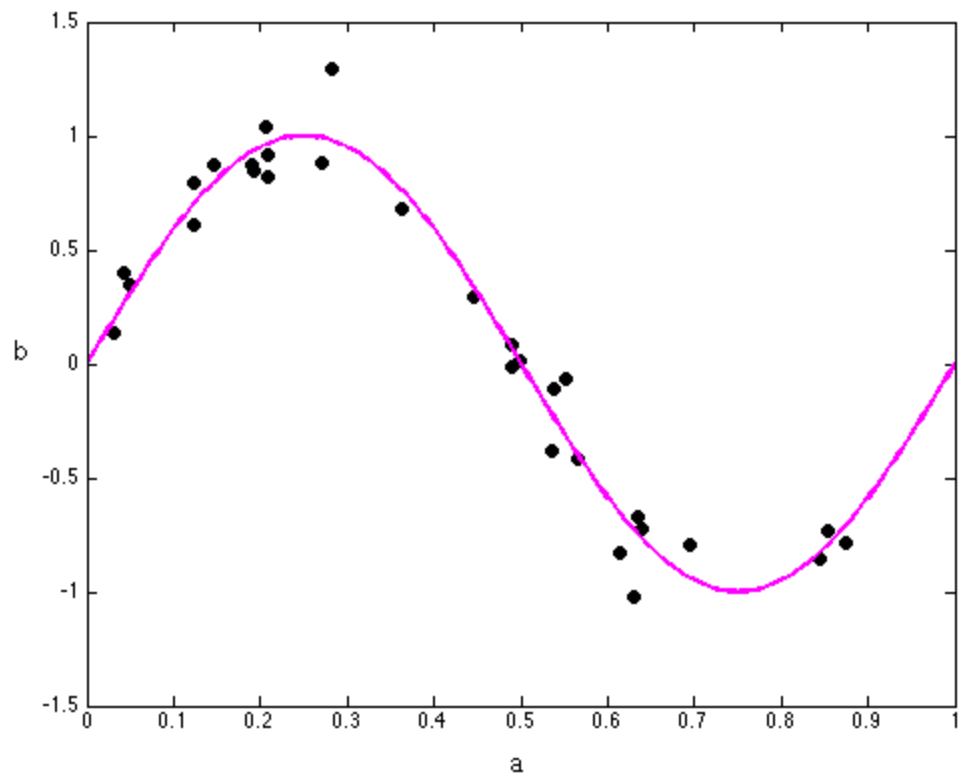
% Make points from sinusoidal w/noise
num_pts = 30; % number of points to plot
a = rand(num_pts,1);
b = sin(2*pi*a) + 1/8*randn(num_pts,1);

% plot points
plot(a,b, 'o', 'MarkerEdgeColor', 'k', 'MarkerFaceColor', 'k')
hold on

% plot underlying sinusoidal model
s = [0:0.005:1]; % range over which to plot
plot(s,sin(2*pi*s), '-m', 'LineWidth', 2)
axis ([0 1 -1.5 1.5]) % adjusts viewing window

% make labels for graph
xlabel('a', 'FontSize', 14, 'FontName', 'cmr10')
ylabel('b', 'FontSize', 14, 'FontName', 'cmr10')
set(get(gca, 'YLabel'), 'Rotation', 0)
set(gcf, 'color', 'w'); % makes background white

```



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