clear clc

x1=-pi:0.1:pi;

x2=pi:0.1:4\*pi;

x3=1:0.1:8;

y1=x1.\*cos(x1);

y2=x2.\*tan(1./x2).\*sin(x2.^3);

y3=exp(1./x3).\*sin(x3);

subplot(2,2,1),plot(x1,y1,'r'),title('y1=xcos(x)')

subplot(2,2,2),plot(x2,y2,'g--'),title('y2=xtan(1/x)sin(x^3)')

subplot(2,2,3),plot(x3,y3,'b:'),title('y3=e^(1/x)sin(x)')

xlabel('xÖá'),ylabel('yÖá')

gtext('y1=x1cos(x1)'),gtext('y2=x2cos(x2)'),gtext('y3=x3cos(x3)')

legend('y1=xcos(x),y2=xtan(1/x)sin(x^3),y3=e^(1/x)sin(x)')

