x = linspace(0,10,1000);

gx = @(x) (3.\*x.^2+4.\*x+6).\*sin(x)./(x.^2+8.\*x+6);

y = gx(x);

pp = csape(x,y);

gx\_csape = @(x) fnval(pp,x);

disp(gx\_csape);

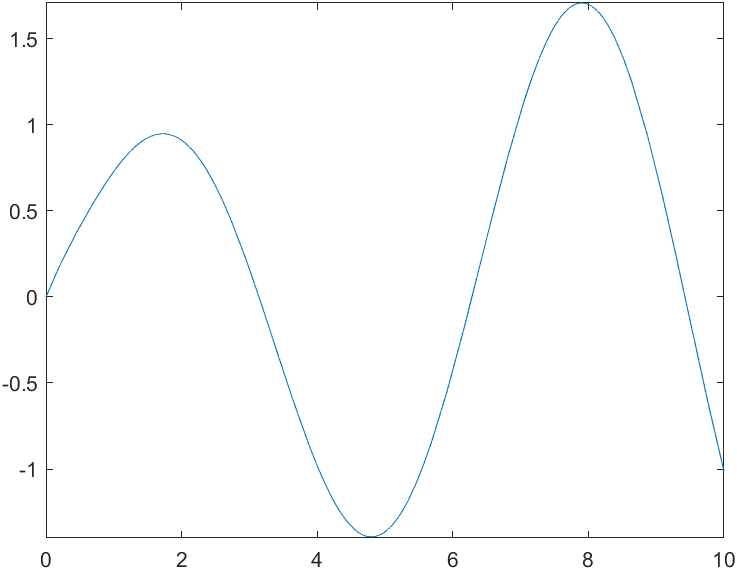
fplot(gx\_csape,[0 10]);

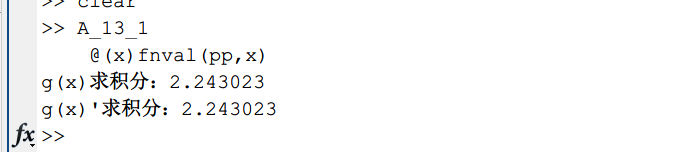
gx\_inte = integral(gx,0,10);

gx\_csape\_inte = integral(gx\_csape,0,10);

fprintf("g(x)求积分：%f\n", gx\_inte);

fprintf("g(x)'求积分：%f\n", gx\_csape\_inte);





T = 700:20:780;

V = [0.0977 0.1218 0.1406 0.1551 0.1664];

F = griddedInterpolant(T,V,'spline');

pp = csape(T,V);

F\_f = @(x) F(x);

pp\_f = @(x) fnval(pp,x);

V\_750\_F = F\_f(750);

V\_750\_pp = pp\_f(750);

V\_770\_F = F\_f(770);

V\_770\_pp = pp\_f(770);

fplot(F\_f);

hold on;

fplot(pp\_f);

hold off;

legend('线性插值函数','三次样条插值函数')

