

```

x=1961:2010;
y=[41.5800,42.0100,43.2500,43.2400,43.1600,45.0100,46.0000,46.5700,48.3400,49.0700,49.9200,51.0700,53.4800,54.0900,54.9700,55.8700,57.7500,59.0100,60.4700,62.4600,6
%y=a*exp(b*x)
%log(y)=log(a)+bx
p=polyfit(x,log(y),1);
b=p(1);
a=exp(p(2));
plot(x,y,'*',x,a*exp(b*x))
legend('data point','exponential fit')
fprintf('Predicted value of CO2 for May 15, 2015: %f ppm\n',a*exp(b*2015))

```

Predicted value of CO2 for May 15, 2015: 129.140947 ppm



