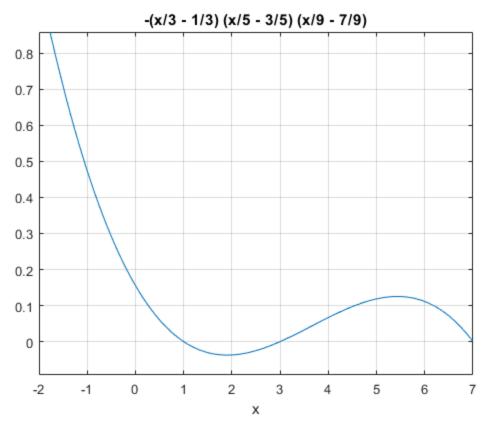
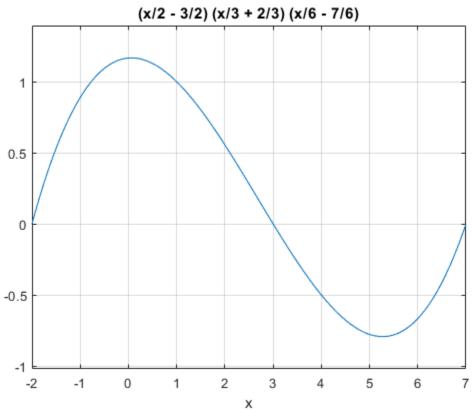
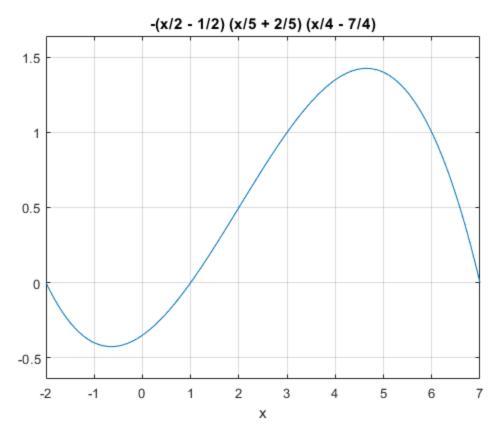
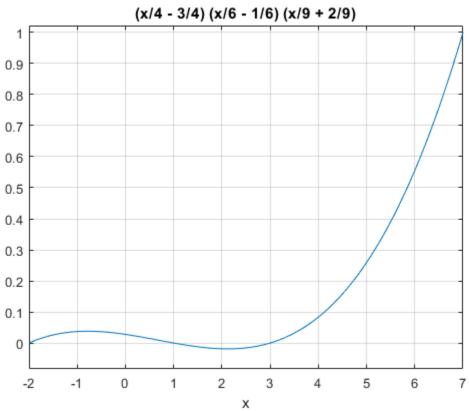
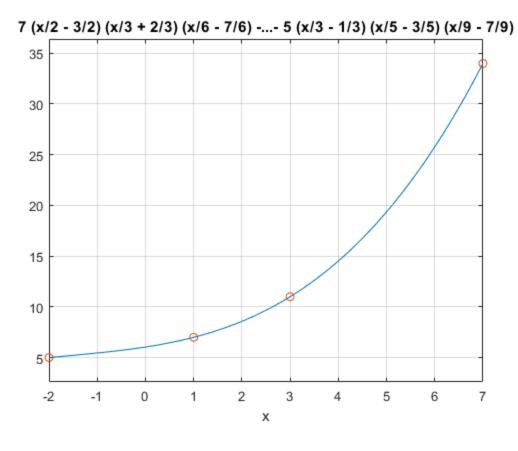
```
Ex 1 - V2 - a,b
X = [-2 \ 1 \ 3 \ 7];
Y = [5 7 11 34];
Pn=0;
n = length(X);
xmin = -2;
xmax = 7;
syms Lnk x
for k = 1 : n
    produs = 1;
    for i = 1 : n
        if (i~=k)
            produs = produs *((x-X(i))/(X(k)-X(i)));
        end
    end
    Pn = Pn + produs * Y(k); %%Metoda Lagrange
    Lnk = produs;
    figure;
    ezplot(Lnk,[xmin, xmax])
    hold on
    grid on
end
figure
ezplot(Pn,[xmin, xmax])
hold on;
plot(X,Y,"o");
grid on;
axis on;
```



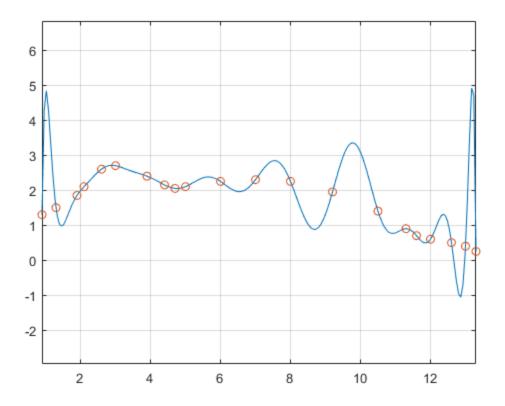








```
%Ex 2
X = [0.9 1.3 1.9 2.1 2.6 3.0 3.9 4.4 4.7 5.0 6.0 7.0 8.0 9.2 10.5 11.3
11.6 12.0 12.6 13.0 13.3];
Y = [1.3 1.5 1.85 2.1 2.6 2.7 2.4 2.15 2.05 2.1 2.25 2.3 2.25 1.95 1.4
0.9 0.7 0.6 0.5 0.4 0.25];
x = linspace(0.9,13.3,200);
Pn = N(X,Y,x);
figure;
plot(x,Pn, "-")
grid on hold on axis equal
plot(X ,Y, "o")
axis equal
```



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