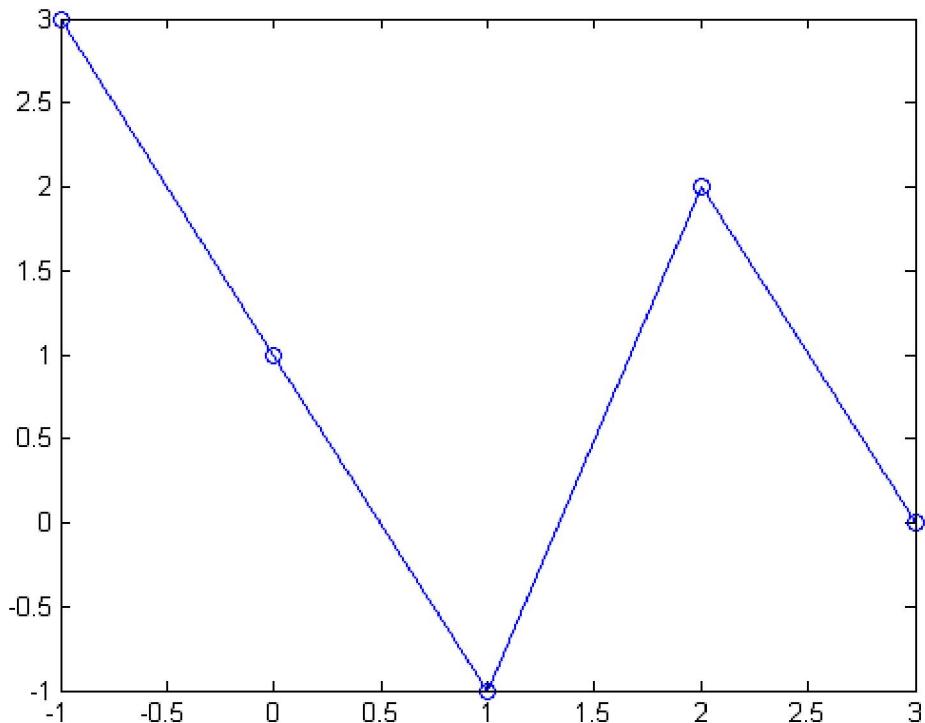
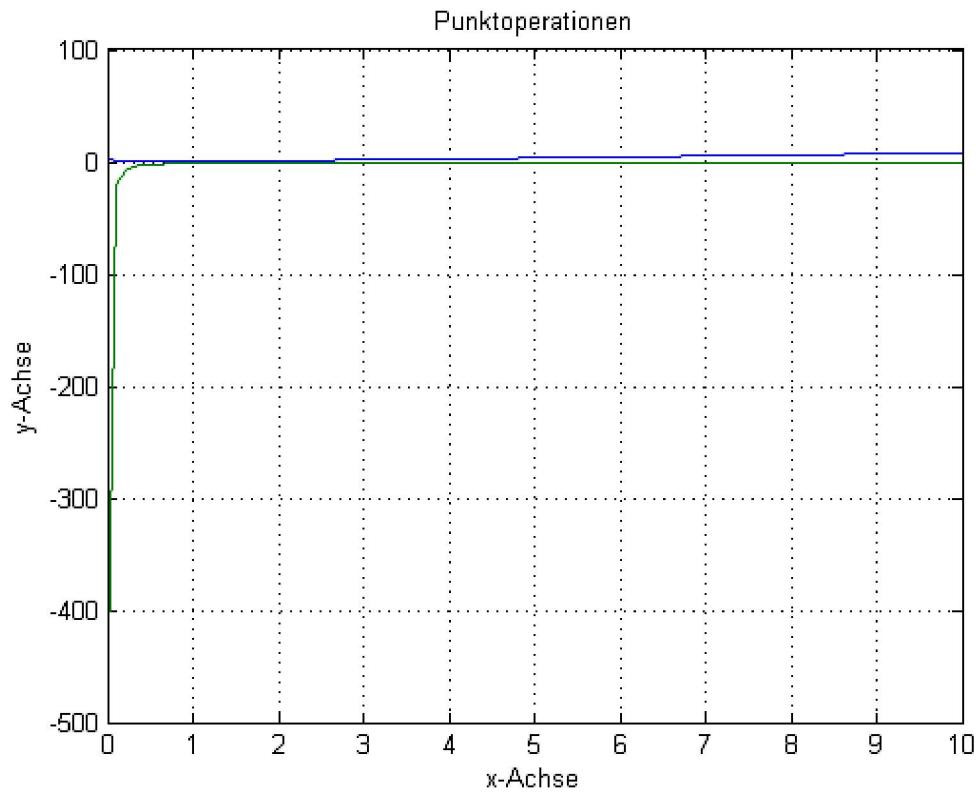


```
%Testataufgaben Kapitel 5  
%Felix Rohrer  
clear  
format compact
```

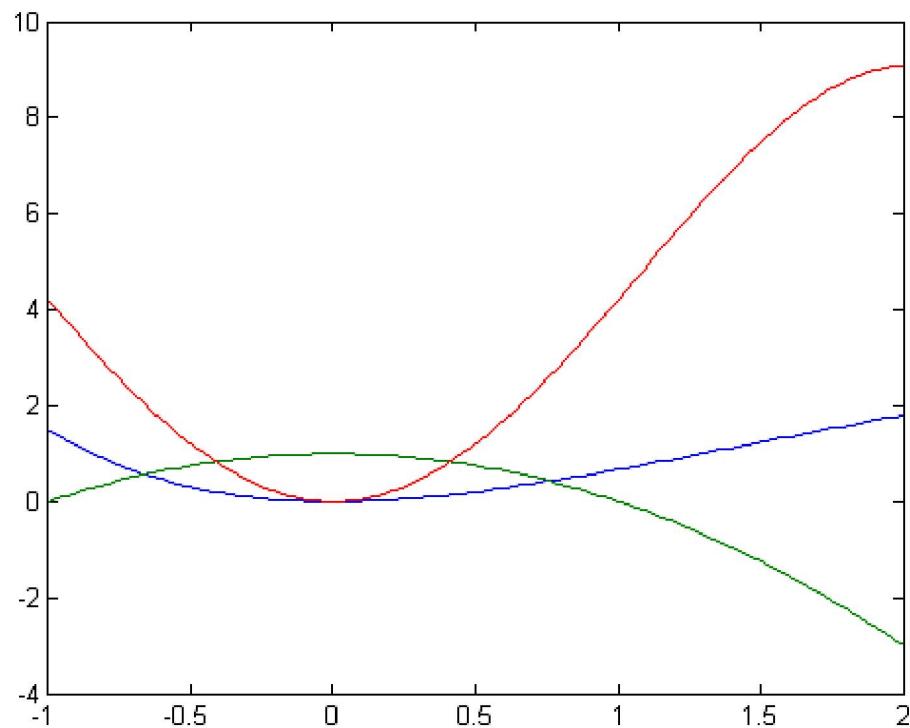
```
%Aufgabe 5.1  
x=[-1 0 1 2 3];  
y=[3 1 -1 2 0];  
plot(x,y, 'o-')
```



```
%Aufgabe 5.2  
x=linspace(0.01,10);  
y=(x.^2-x+2)./(x+1);  
z=(log(x)-x)./x;  
plot(x,y,x,z)  
grid  
xlabel('x-Achse')  
ylabel('y-Achse')  
title('Punktoperationen')
```



```
%Aufgabe 5.3
x=linspace(-1,2);
y1=x.^2.*exp(-0.4*x);
y2=-x.^2+1;
y3=5*x.*sin(x);
plot(x,y1,x,y2,x,y3)
```

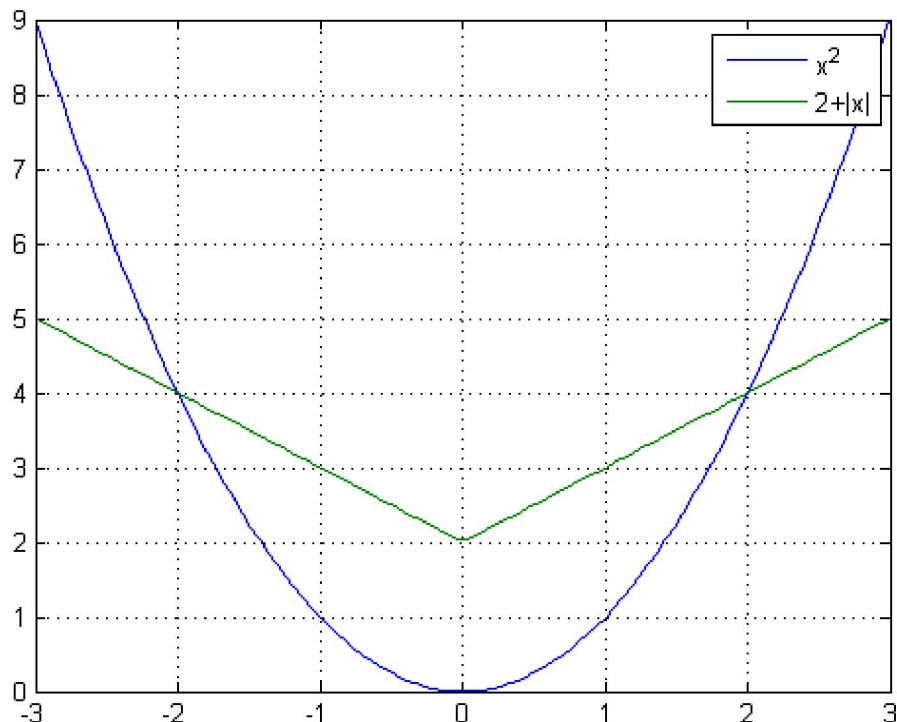


```
%Aufgabe 5.4
```

```

x=linspace(-3,3);
y=x.^2;
z=2+abs(x);
plot(x,y,x,z)
grid
legend('x^2', '2+|x|')
%Für alle x < -2 und x > 2

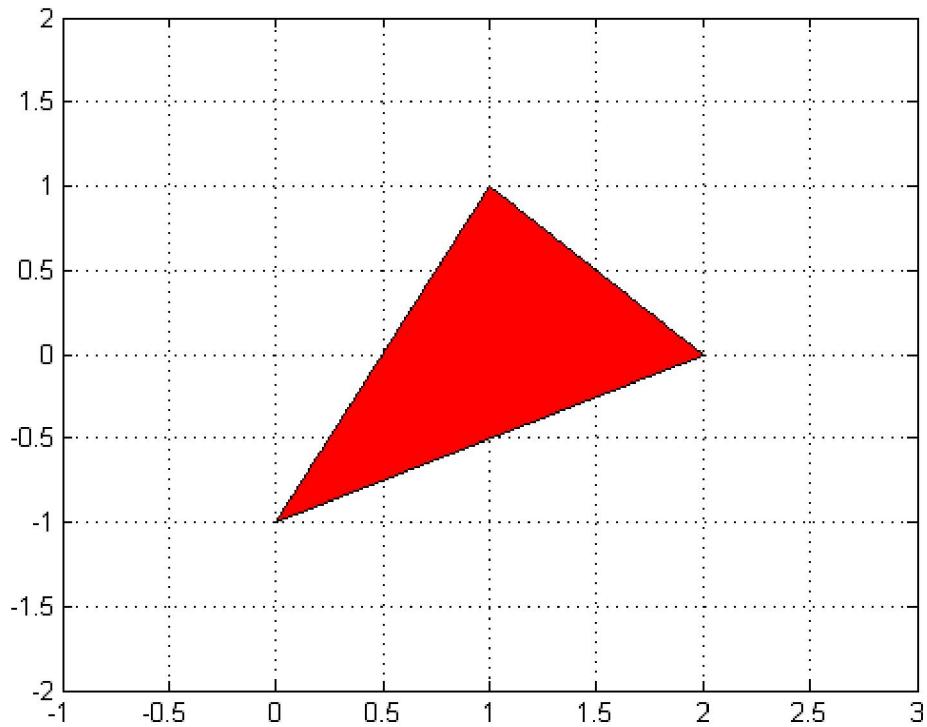
```



```

%Aufgabe 5.5
x=[2 1 0];
y=[0 1 -1];
fill(x,y,'r')
axis([-1 3 -2 2])
grid

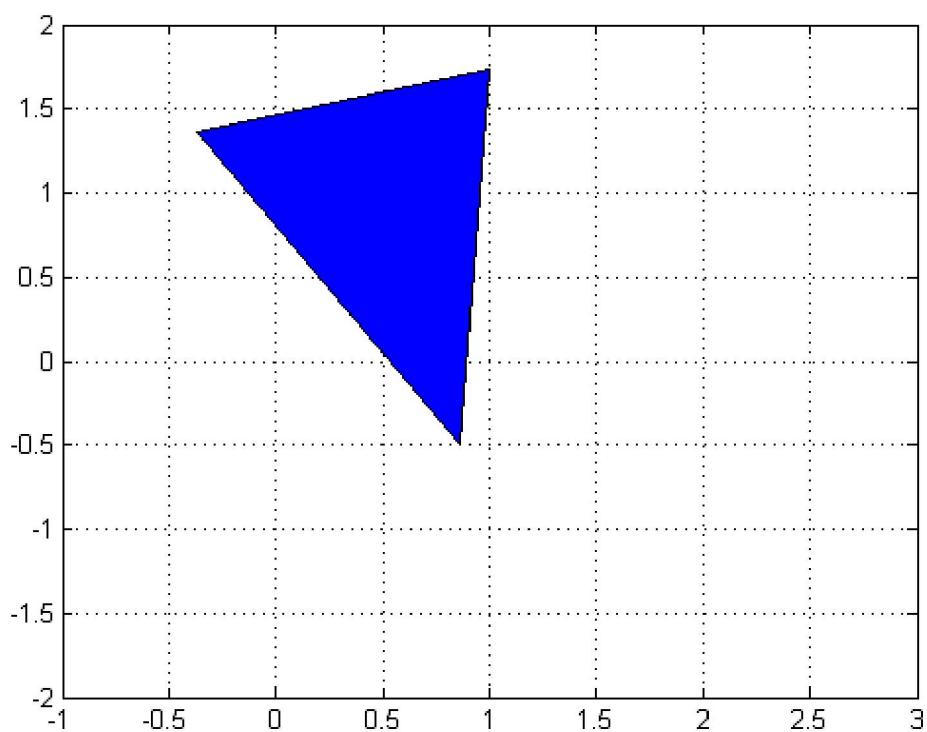
```



```

P=[2;0];
Q=[1;1];
R=[0;-1];
D=[cosd(60) -sind(60);sind(60) cosd(60)];
P1=D*P;
Q1=D*Q;
R1=D*R;
A=[P1 Q1 R1 P1];
fill(A(1,:),A(2,:),'b')
axis([-1,3,-2,2])
grid

```



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