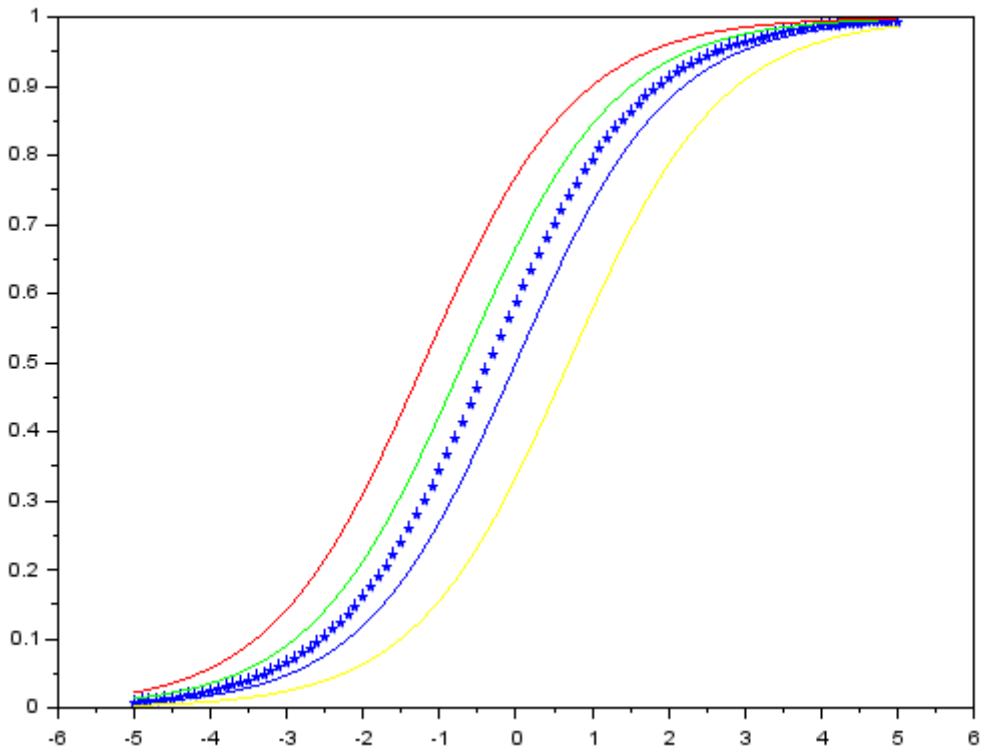
introduction to scilab

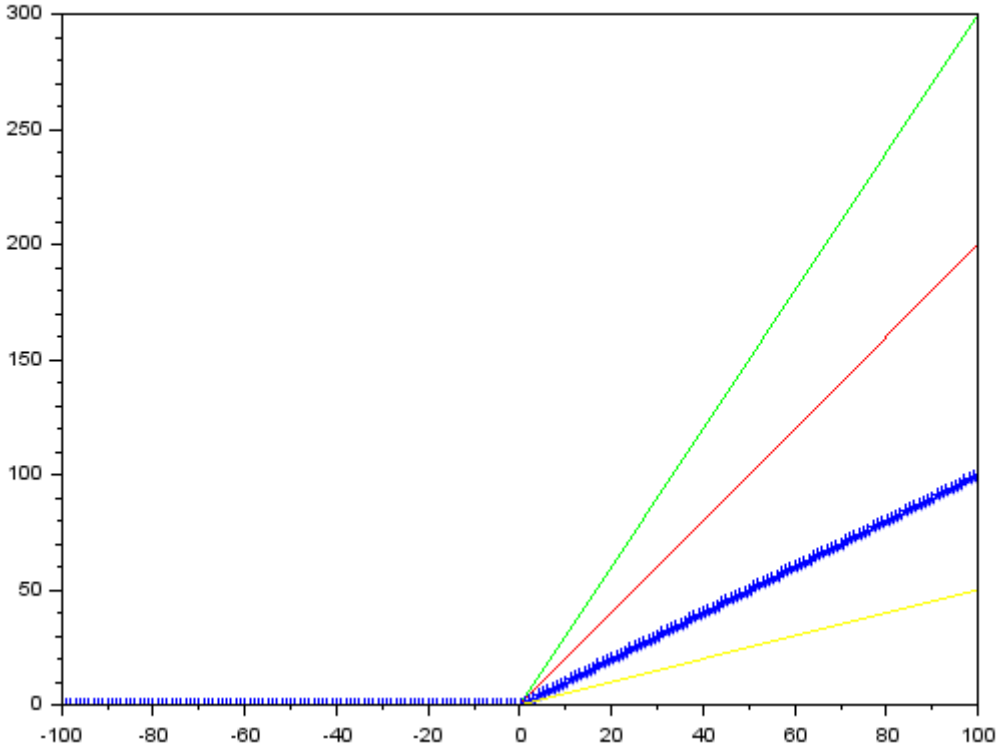
Sigmoid

```
alpha = .7
x=-5:.1:5
y= 1./(1+alpha*exp(-x));
plot(x,y,"p");
```



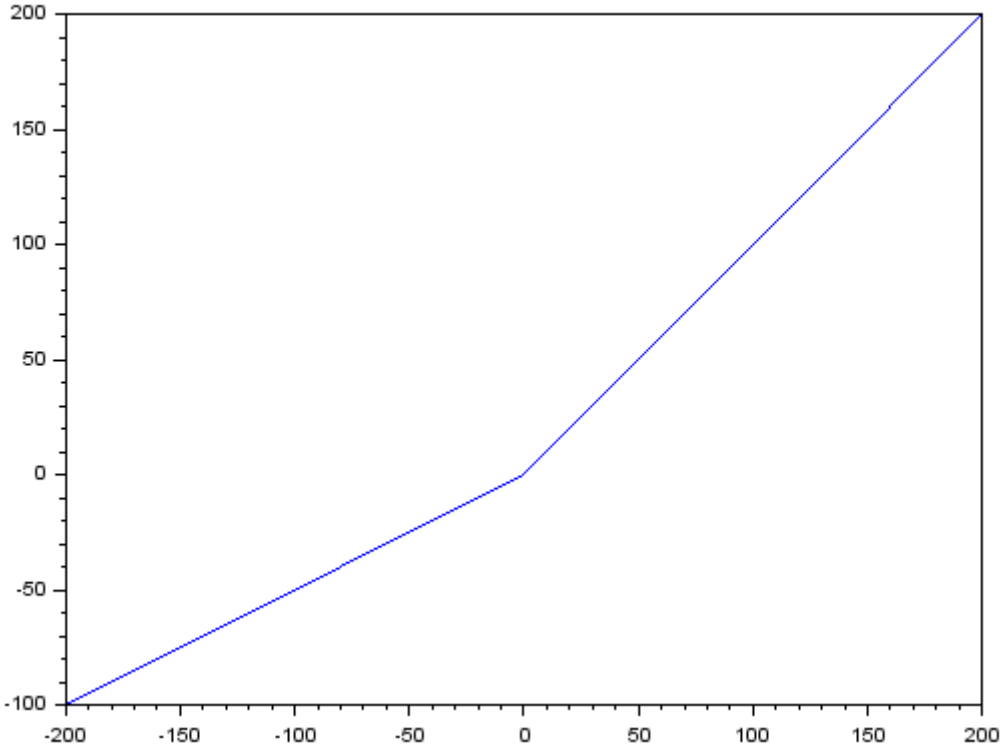
Rectified Linear Unit

```
alpha = 2
x=-100:1:100;
y=max(0,alpha*x);
plot(x,y,"r");
```



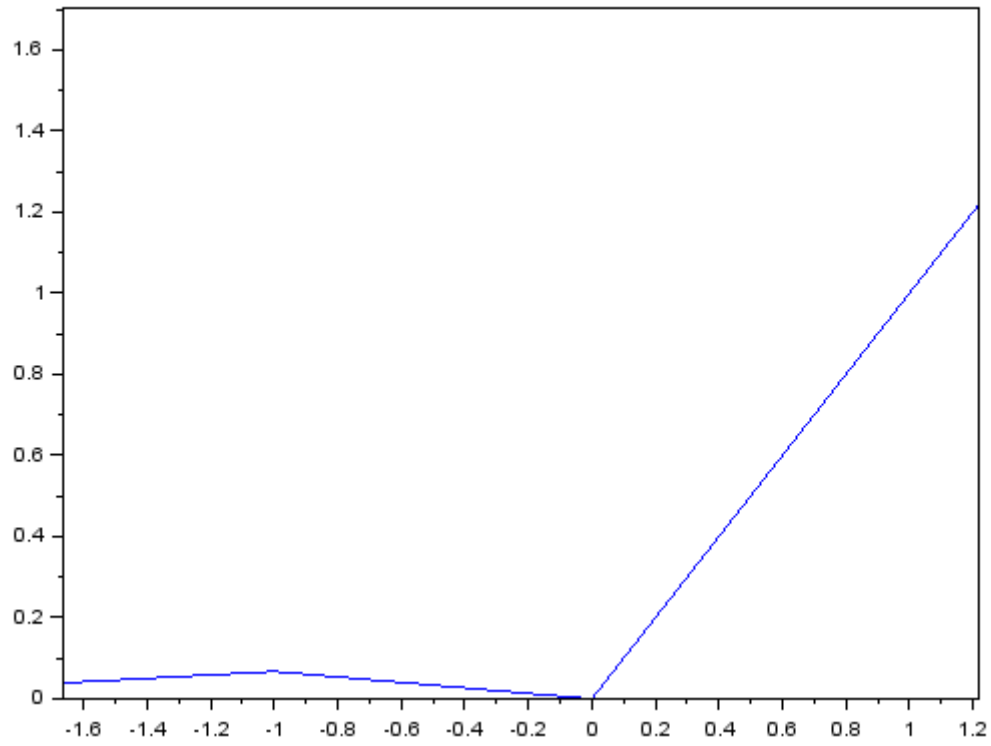
Leaky Relu

```
alpha = 0.5;
x=-200:200;

for i=1:401;
    if x(i)<0 then
        y(i) = alpha.*x(i);
    else
        y(i)=x(i);
    end
end
plot(x,y);
```



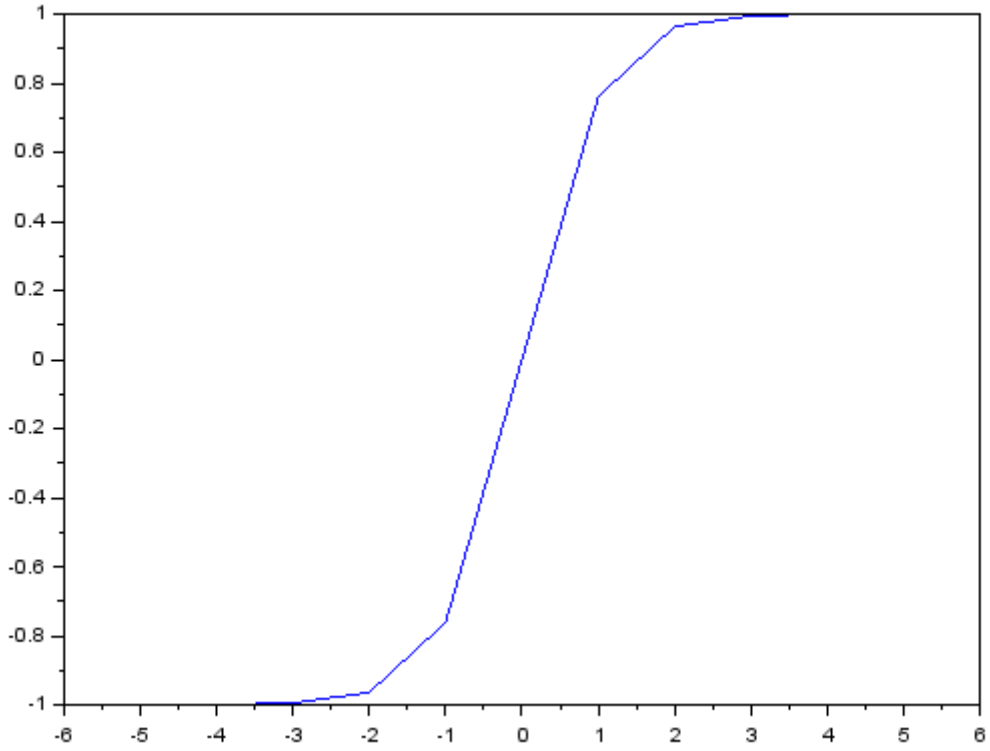
Exponential Linear Unit

```
alpha = 0.5;
x=-20:400;

for i=1:421;
    if x(i)<0 then
        y(i) = alpha*(exp(x(i)-1));
    else
        y(i)=x(i);
    end
end
plot(x,y);
```



Tanh

```
alpha = 0.5;
x=-200:200;

for i=1:401;
    if x(i)<0 then
        y(i) = alpha.*x(i);
    else
        y(i)=x(i);
    end
end
plot(x,y);
```


1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-6
-5
-4
-3
-2
-1
0
1
2
3
4
5
6