| Activation function | f(x) | f(x) | $\frac{df(x)}{dx}$ |
|---------------------|----------------------|--|---|
| sigmoid | $\frac{1}{1+e^{-x}}$ | 1.2 1 0.8 0.6 0.4 0.2 -15 -10 -5 0 5 10 15 | 0.25 0.15 0.15 0.05 -15 -10 -5 0 5 10 15 |
| tanh | tanh(x) | 1.5 1 0.5 -15 -10 -5 0 5 10 15 -0.5 | 1.2 1 0.8 0.6 0.6 0.7 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 |
| RelU | max(0,x) | -15 -10 -5 0 5 10 15 | 1.2 1 0.8 0.6 0.4 0.2 -15 -10 -5 0 5 10 15 |

