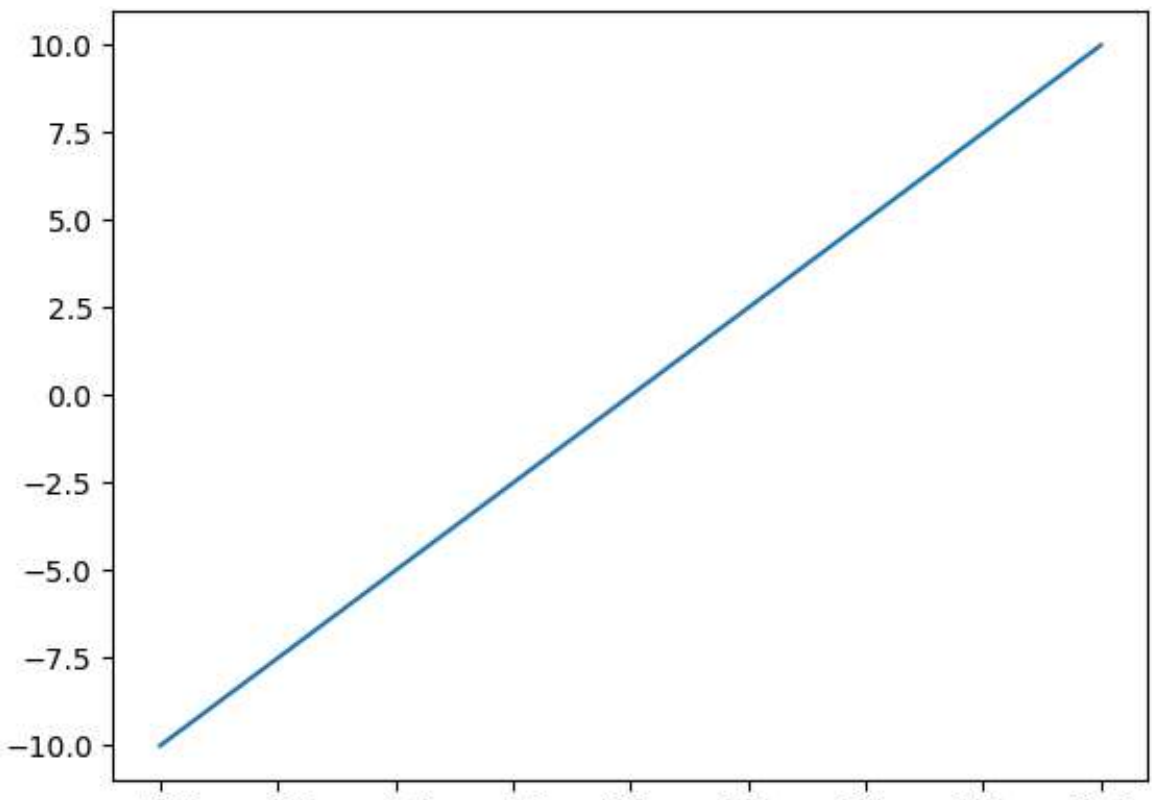
In [39]:
```
x=np.linspace(-10,10,100)
```

In [40]:
```
from matplotlib import pyplot as plt
```

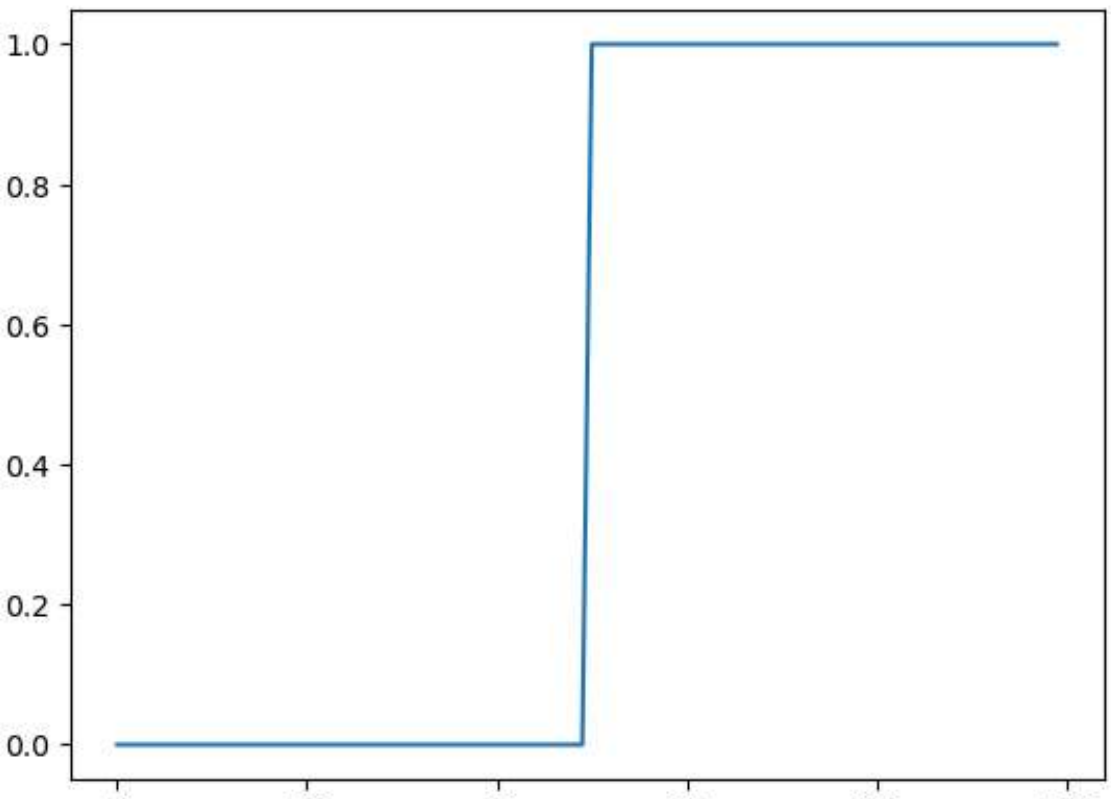
In [48]:
```
#Linear
plt.plot(x,x)
```

Out[48]:
```
[<matplotlib.lines.Line2D at 0x1d08f0fc050>]
```



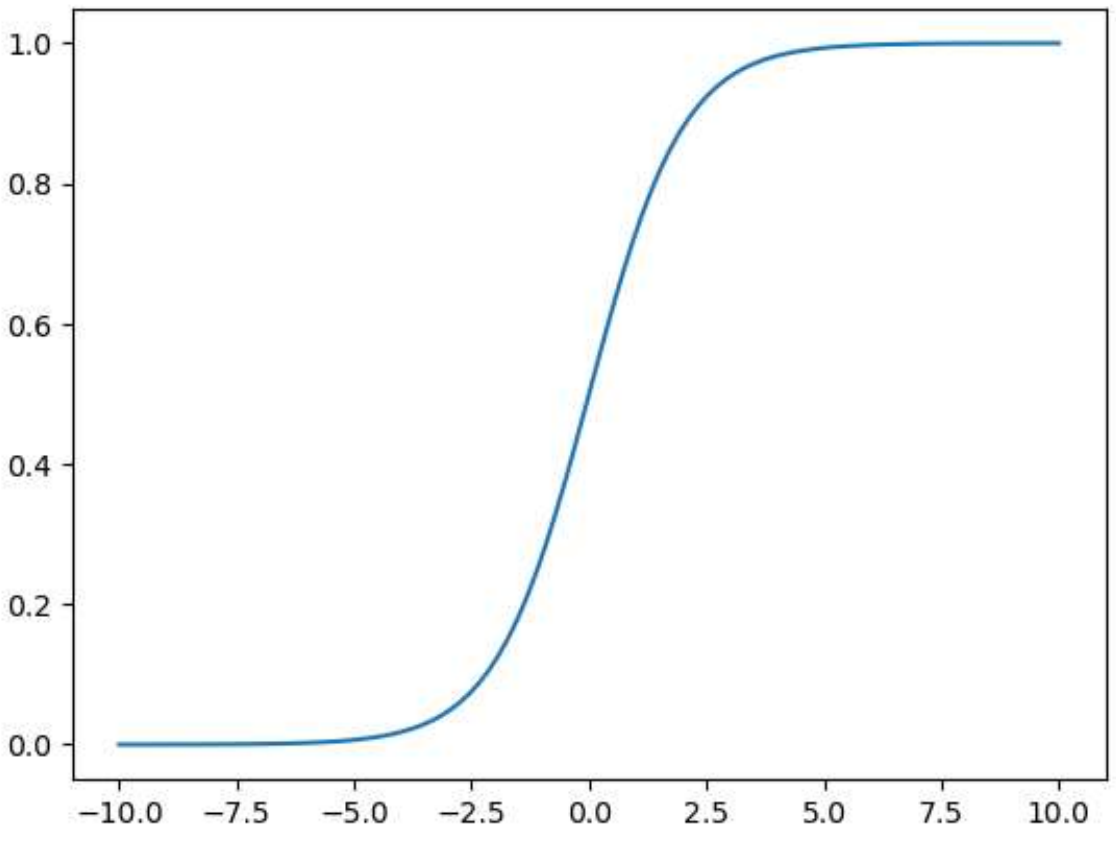
In [49]:
```
#binary
plt.plot(np.heaviside(x,1))
```

Out[49]:
```
[<matplotlib.lines.Line2D at 0x1d08f1edc90>]
```



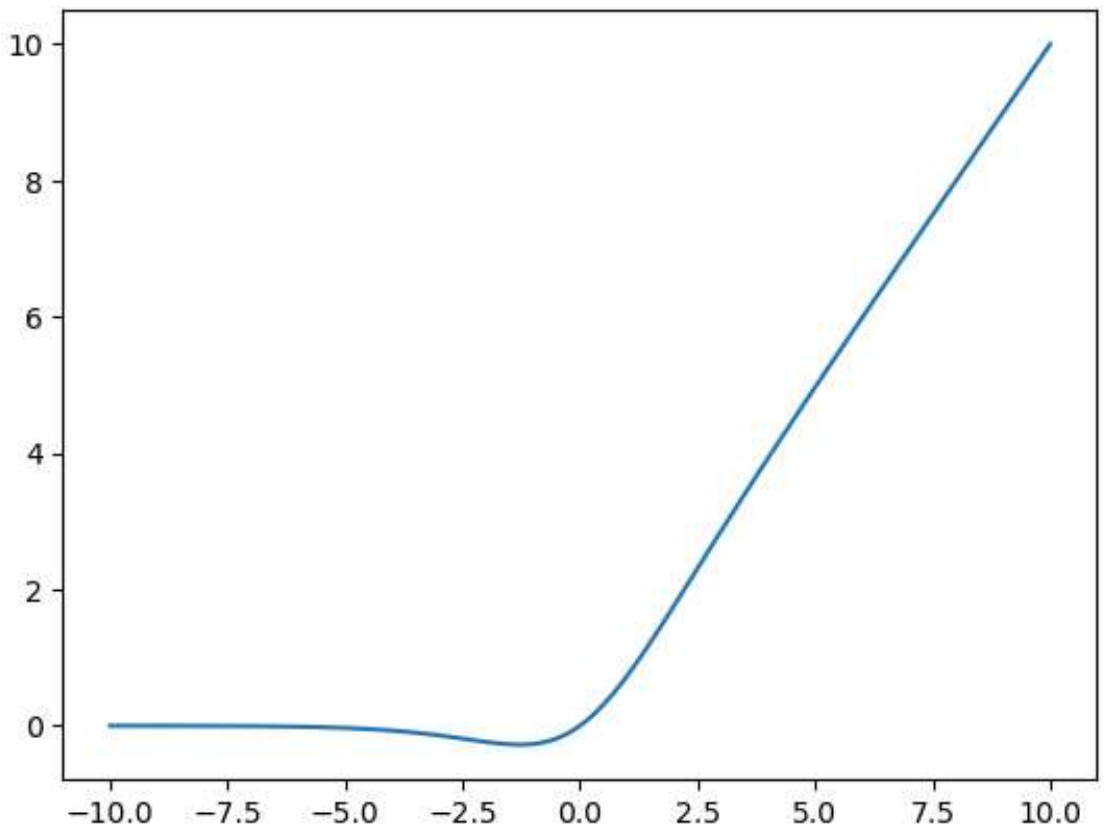
In [50]:
```
#sigmoid
plt.plot(x,1/(1+np.exp(-x)))
```

Out[50]:
```
[<matplotlib.lines.Line2D at 0x1d08f288e90>]
```



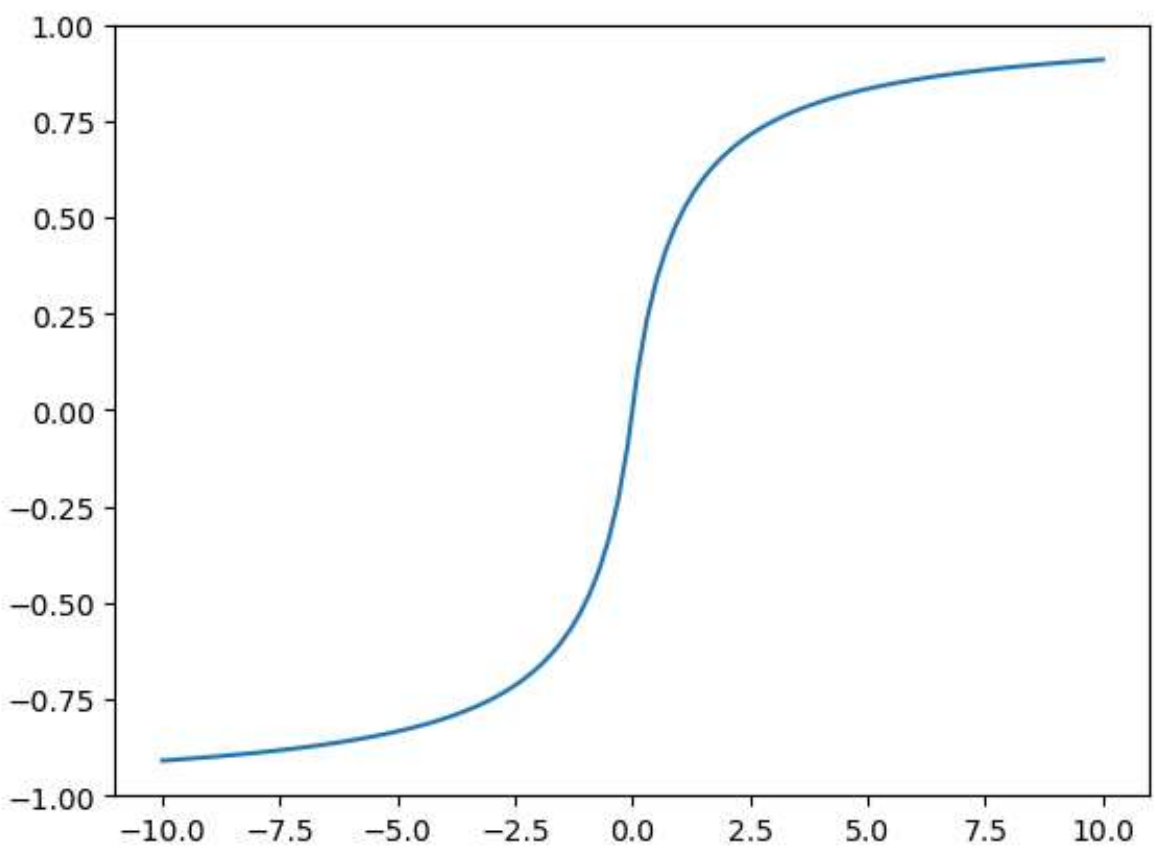
In [51]:
```
#swish
plt.plot(x,x/(1+np.exp(-x)))
```

Out[51]: [<matplotlib.lines.Line2D at 0x1d08f2c4d90>]



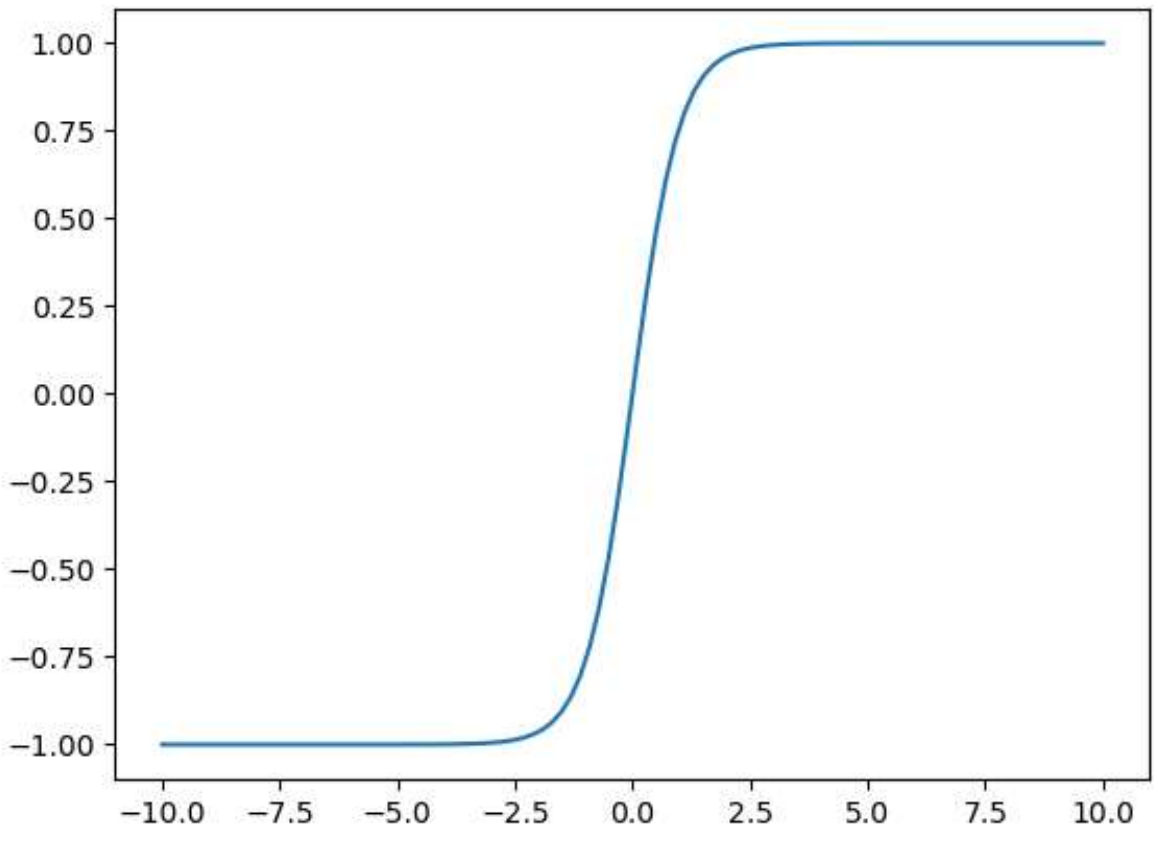
In [52]:
```
#soft sign
plt.plot(x,x/(1+abs(x)))
```

Out[52]: [<matplotlib.lines.Line2D at 0x1d08f398090>]



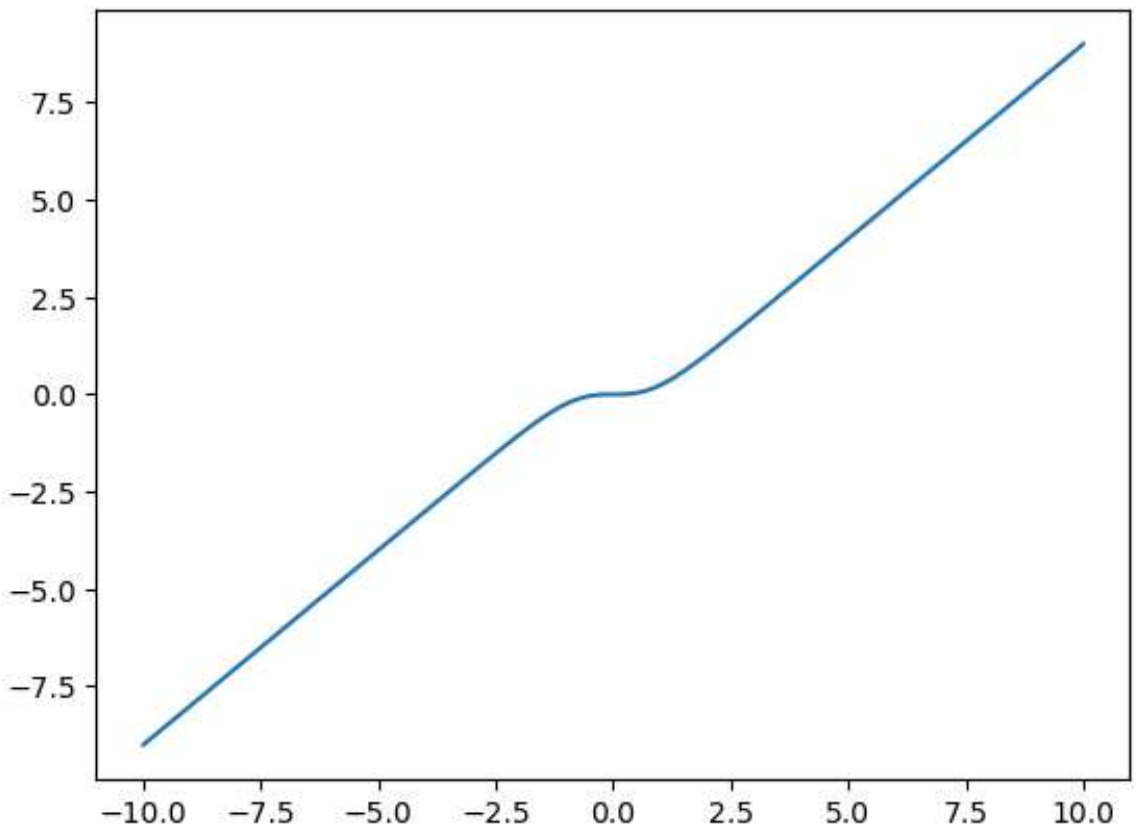
In [54]:
```
#tanh
plt.plot(x,np.tanh(x))
```

Out[54]: [<matplotlib.lines.Line2D at 0x1d08f5362d0>]



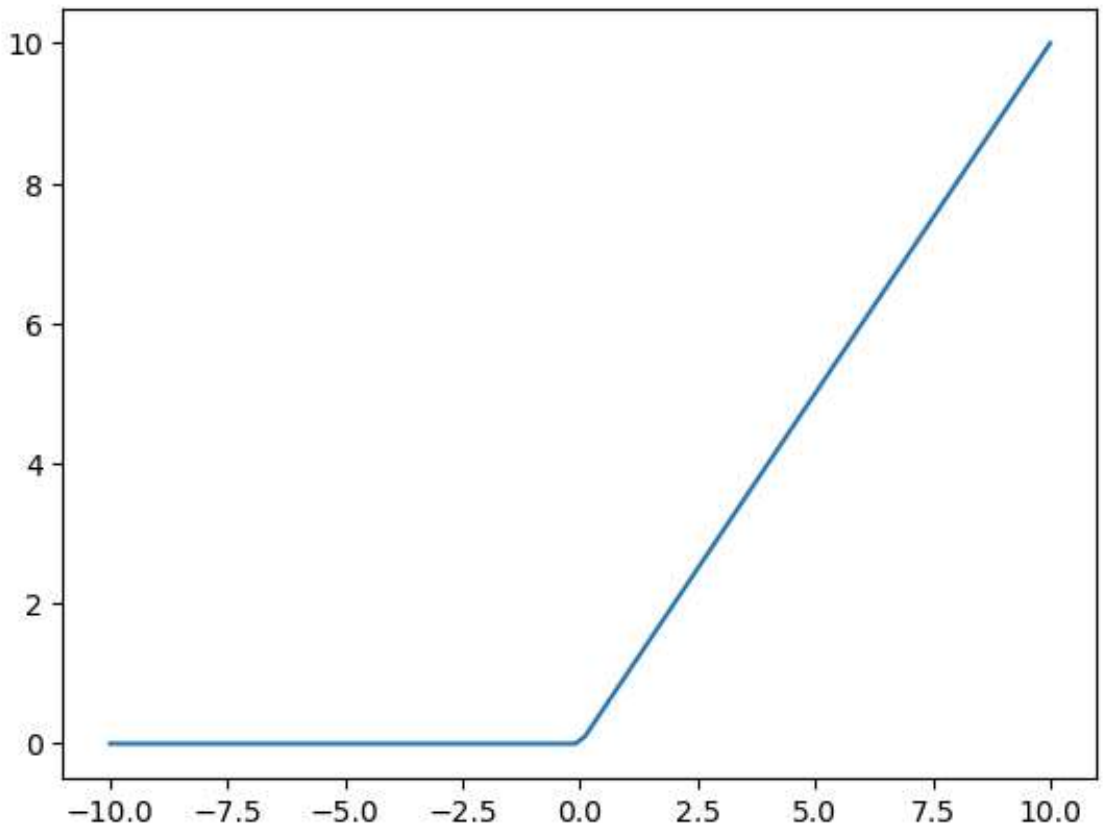
In [55]:
```
#tanshirnk
plt.plot(x,x-np.tanh(x))
```

Out[55]: [<matplotlib.lines.Line2D at 0x1d0916c8090>]



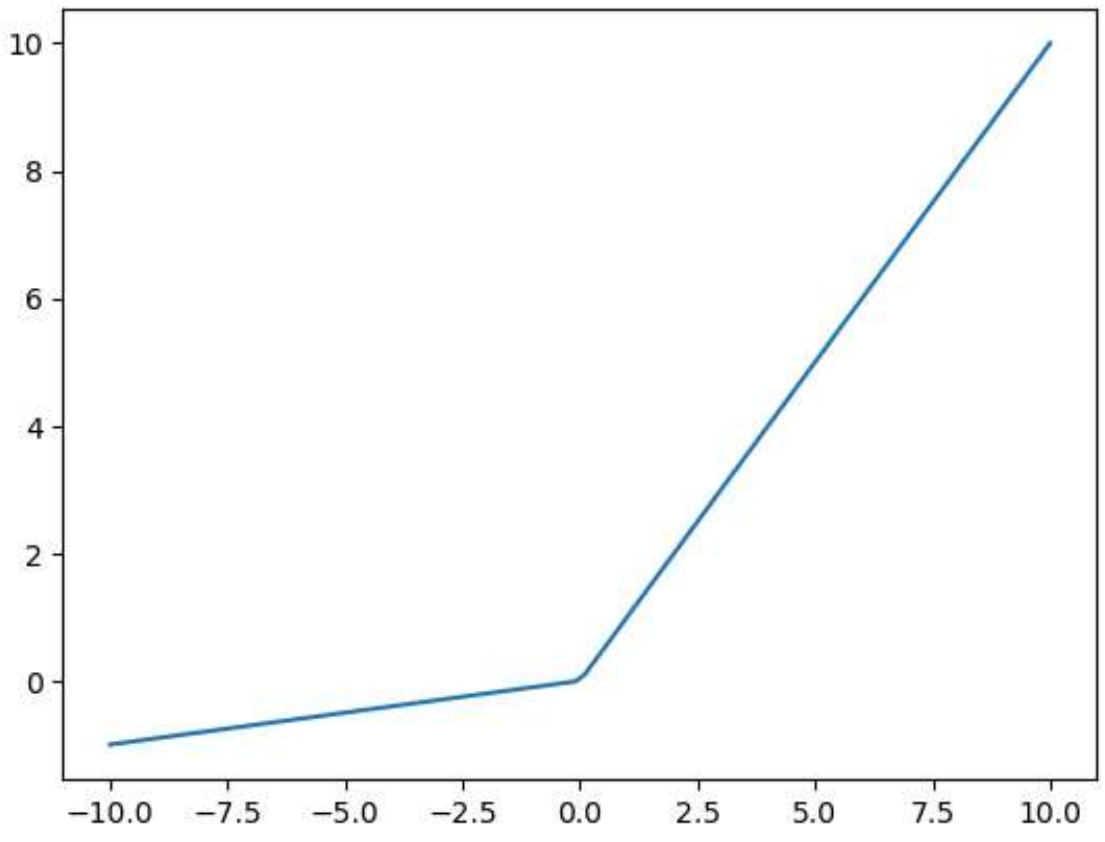
In [56]:
```
#relu
plt.plot(x,np.maximum(0,x))
```

Out[56]: [<matplotlib.lines.Line2D at 0x1d0918a7d50>]



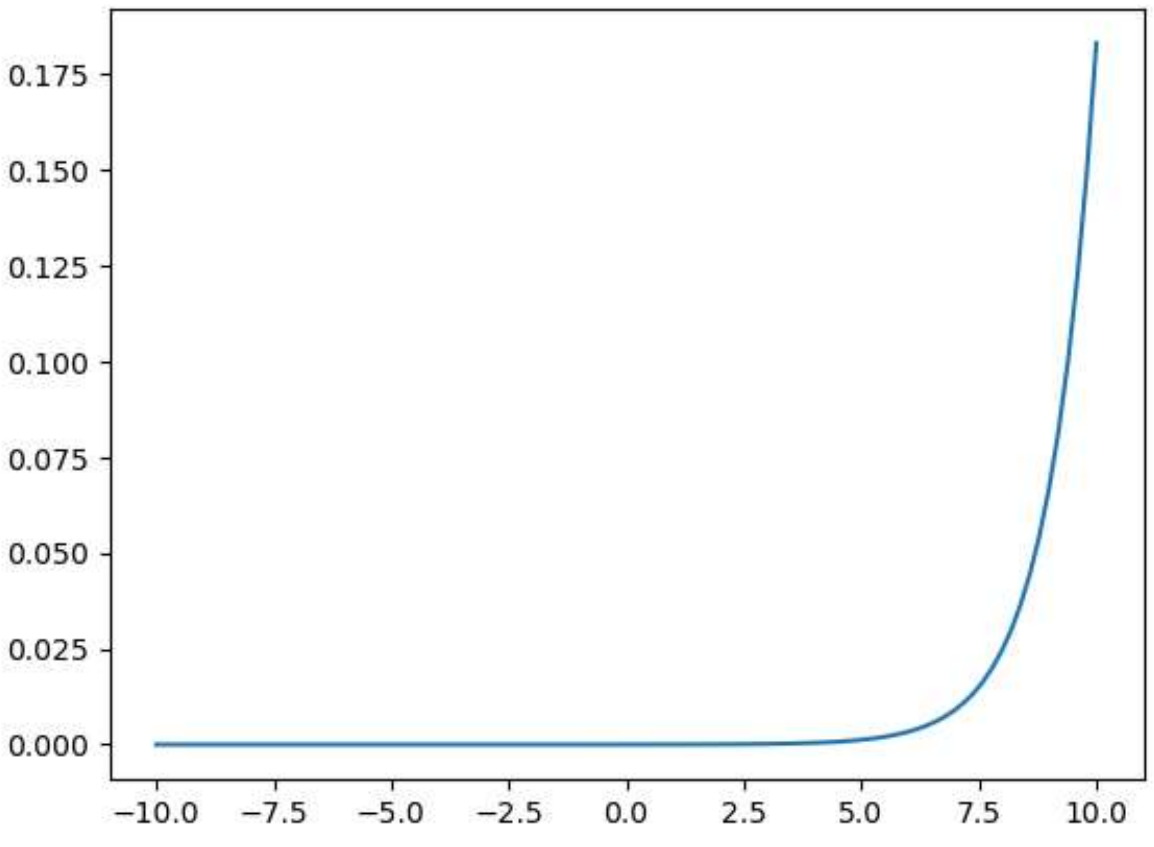
In [57]:
```
#Leaky relu
plt.plot(x,np.maximum(0.1*x,x))
```

Out[57]: [<matplotlib.lines.Line2D at 0x1d08f137010>]



In [53]:
```
#soft max
plt.plot(x,np.exp(x)/np.sum(np.exp(x)))
```

Out[53]: [<matplotlib.lines.Line2D at 0x1d08f454d90>]



In [ ]: