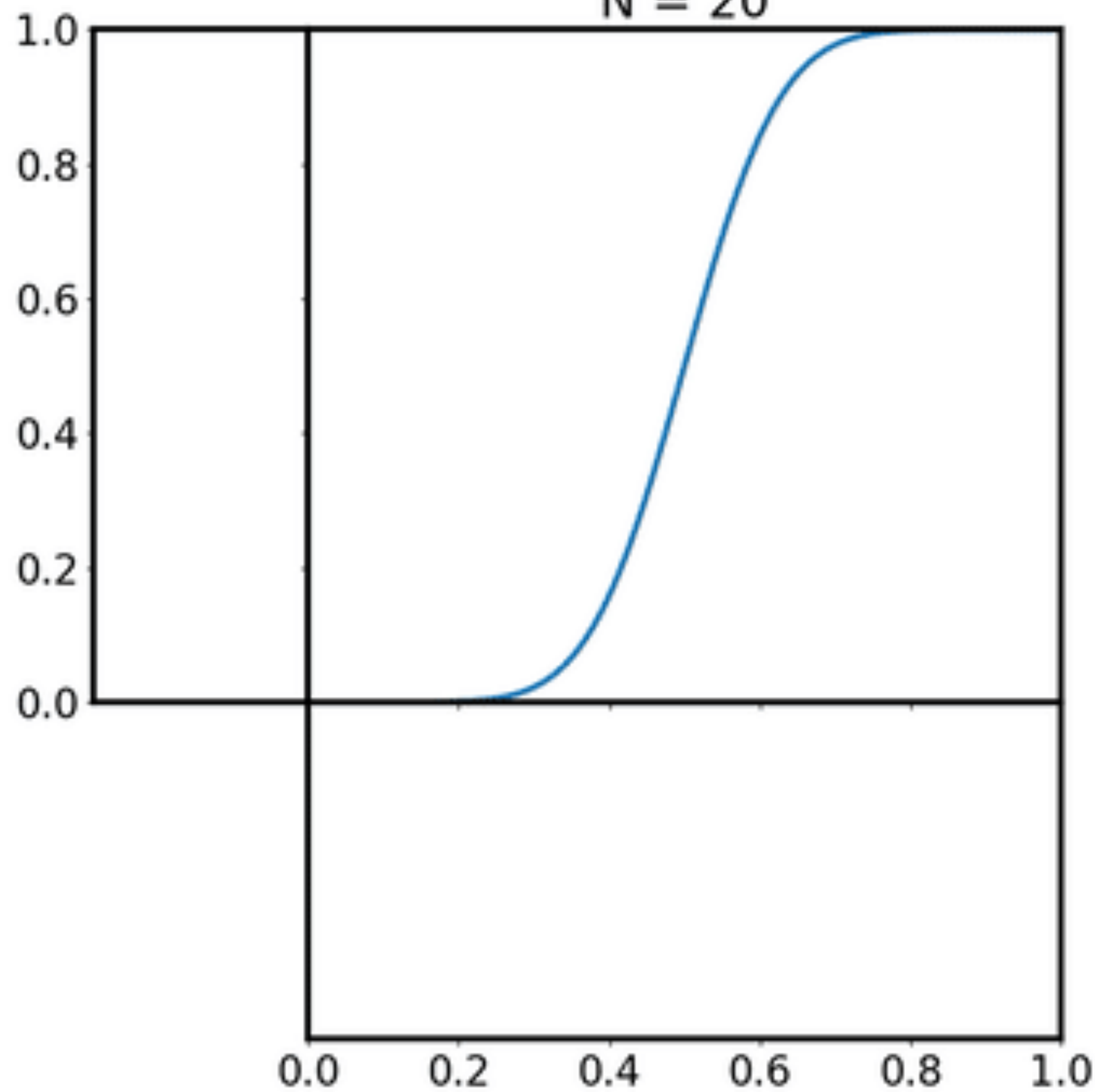
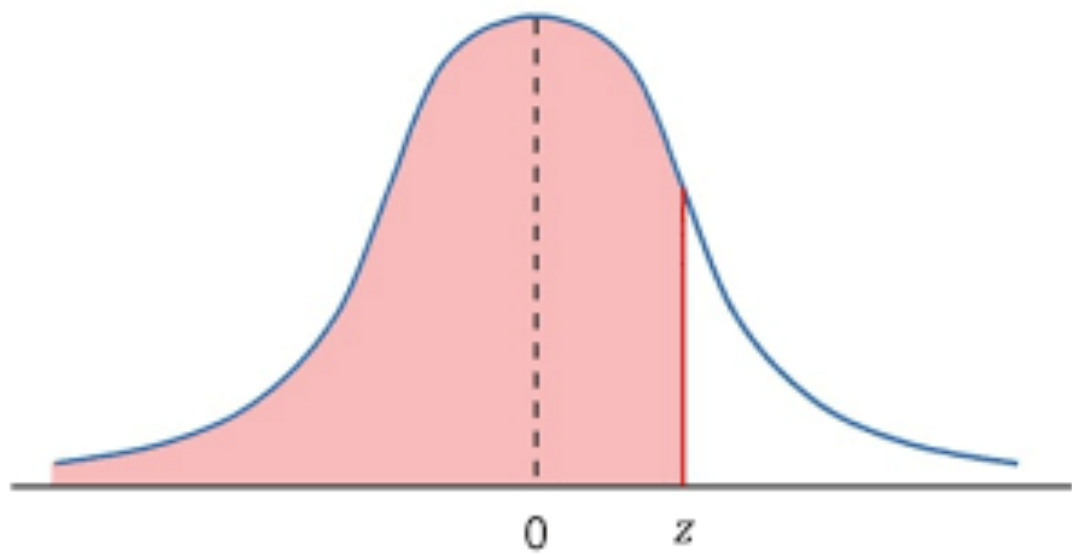


InverseCDFMethod

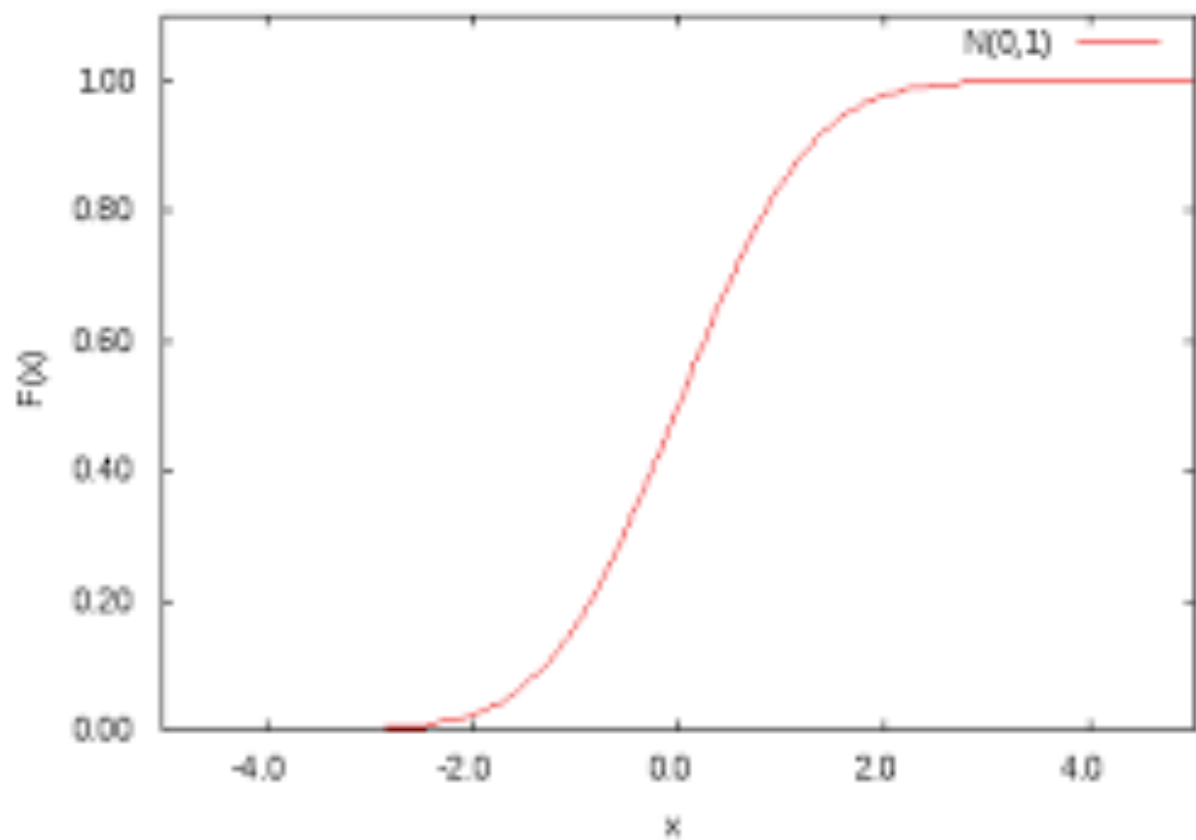
여러 화학물

$N = 20$

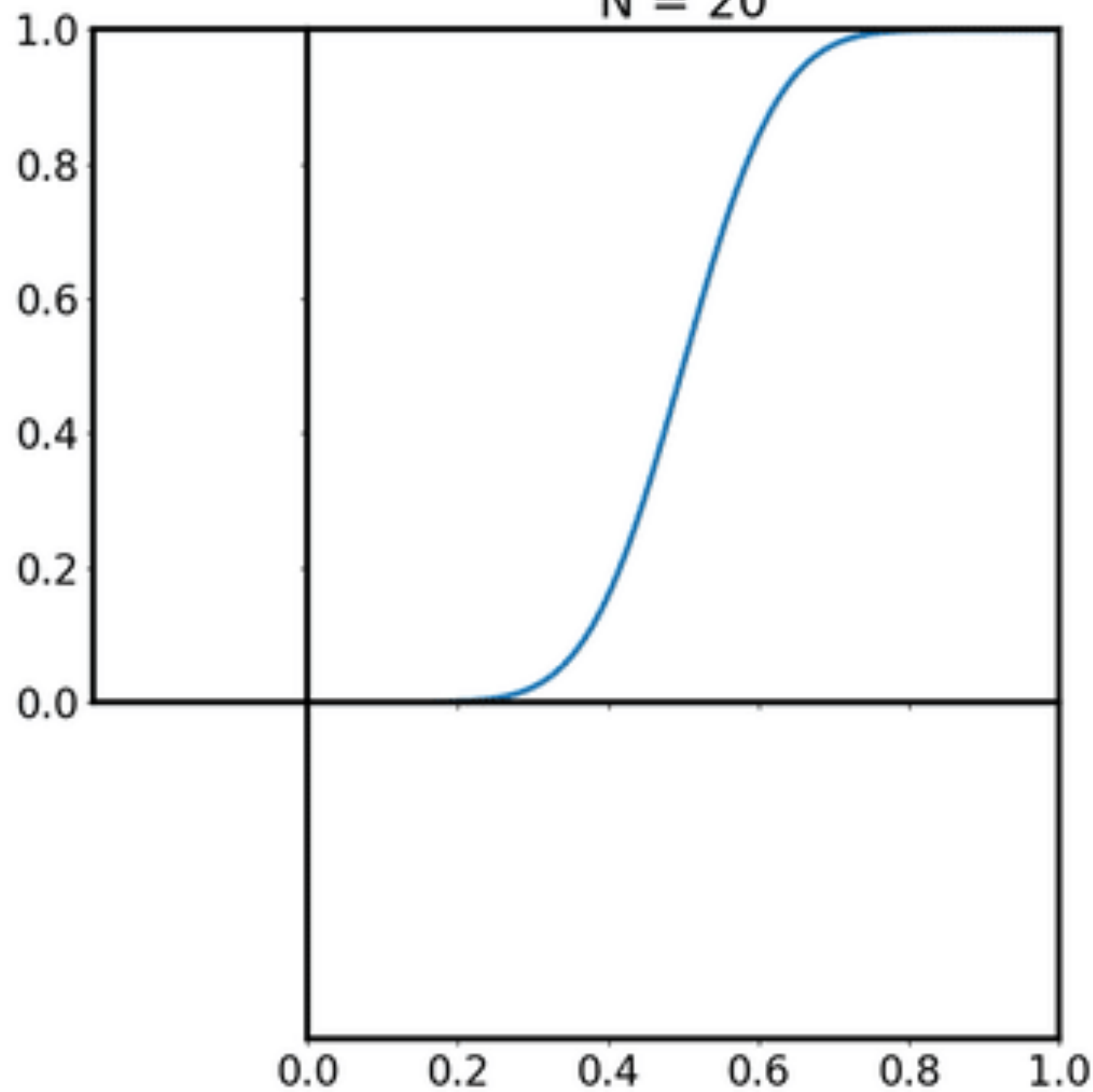




Standard Normal Distribution CDF

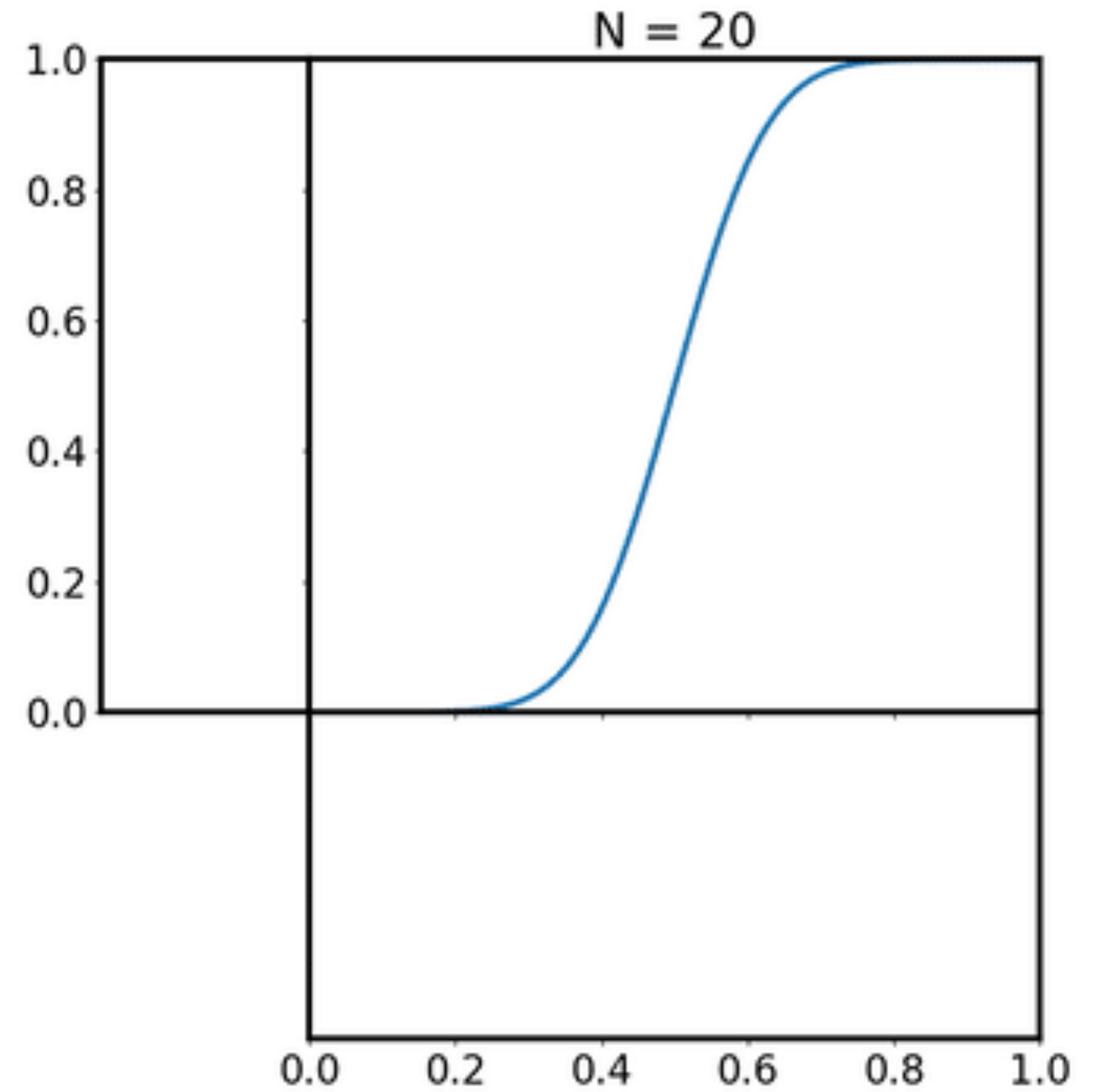
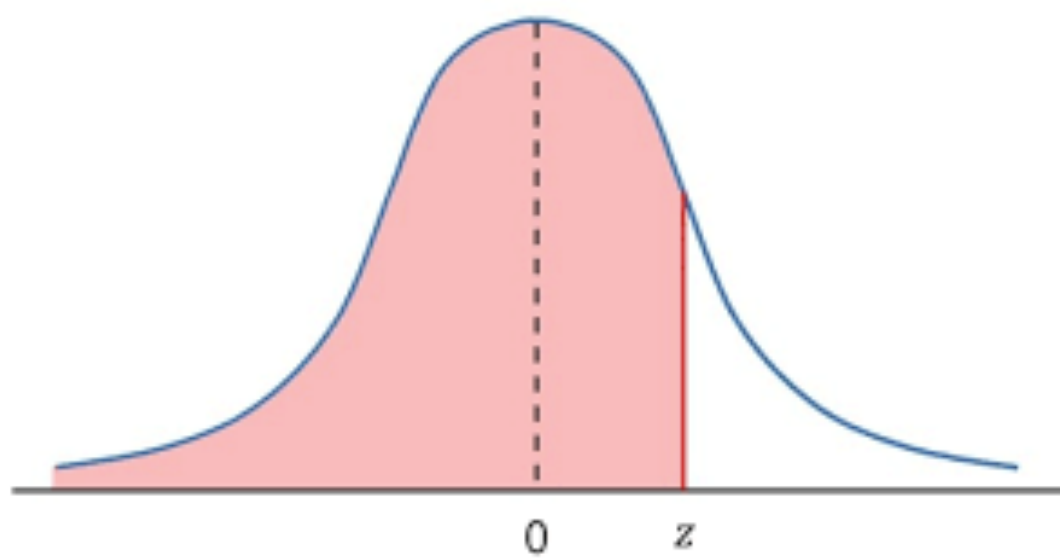
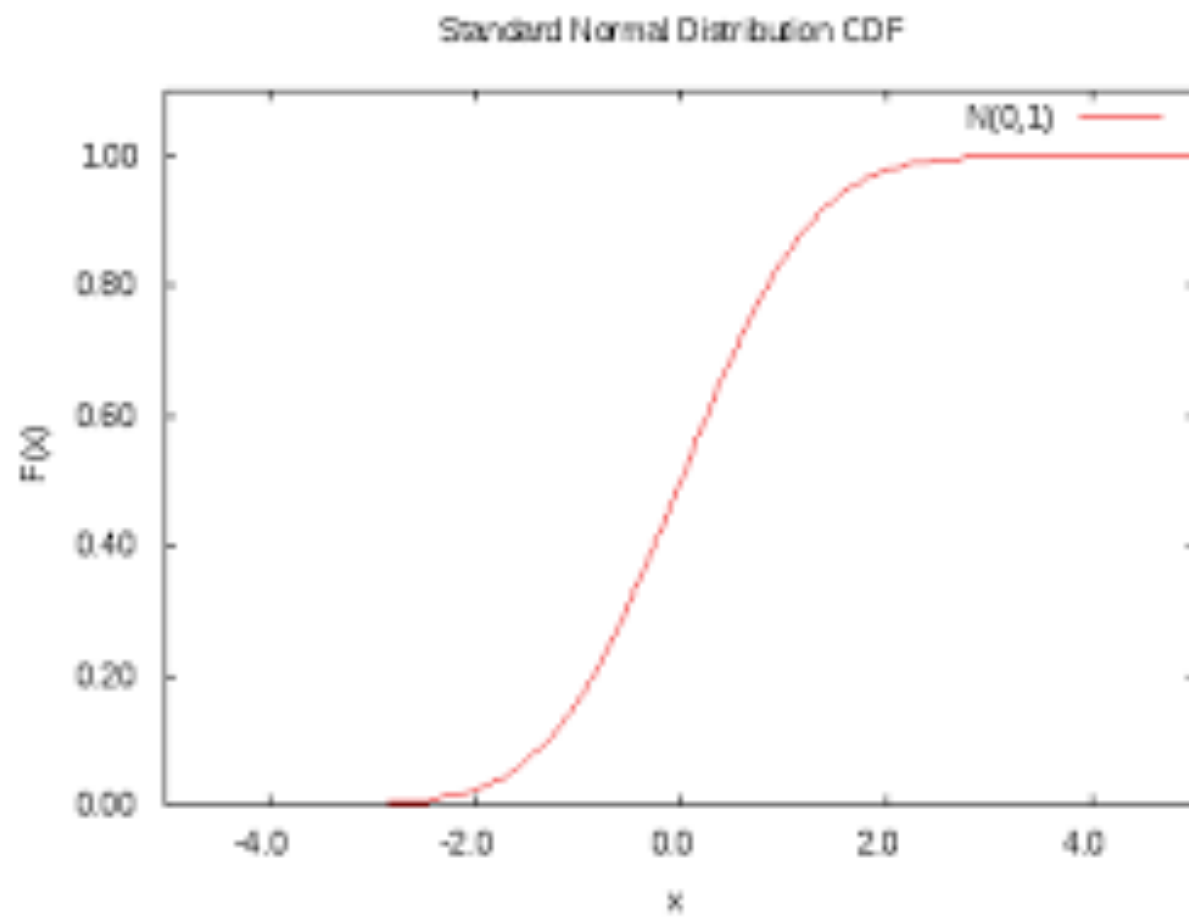


$N = 20$



Inverse CDF Method

역변환법



구현코드

```
const sample_num = 424242;
let sample_data = [];
let i = 0;

while (i < sample_num)
{
    const lamda = 1.5;
    const uniform_data = Math.random();
    // cdf의 역함수
    const transed_data = -lamda * Math.log(1 - uniform_data);
    sample_data.push(transed_data);
    i++;
}

const display_sampling = [{
    x: sample_data,
    type: 'histogram',
    xbins: {
        start: 0
    }
}]

Plotly.newPlot('display_sampling', display_sampling);
```