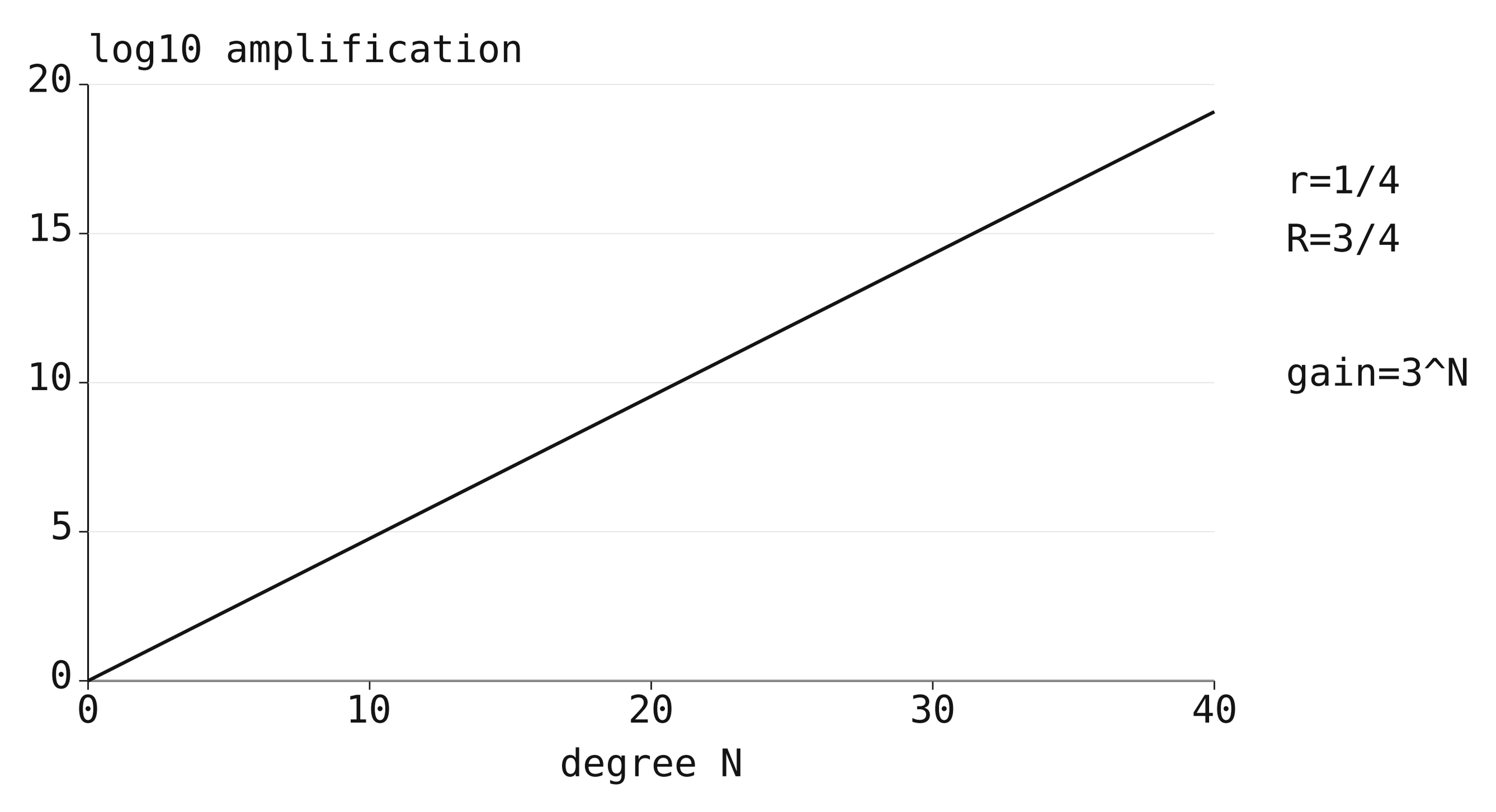

log10 amplification
20
15
10
5
0
0
10
20
30
40
degree N
r=1/4
R=3/4
gain=3^N