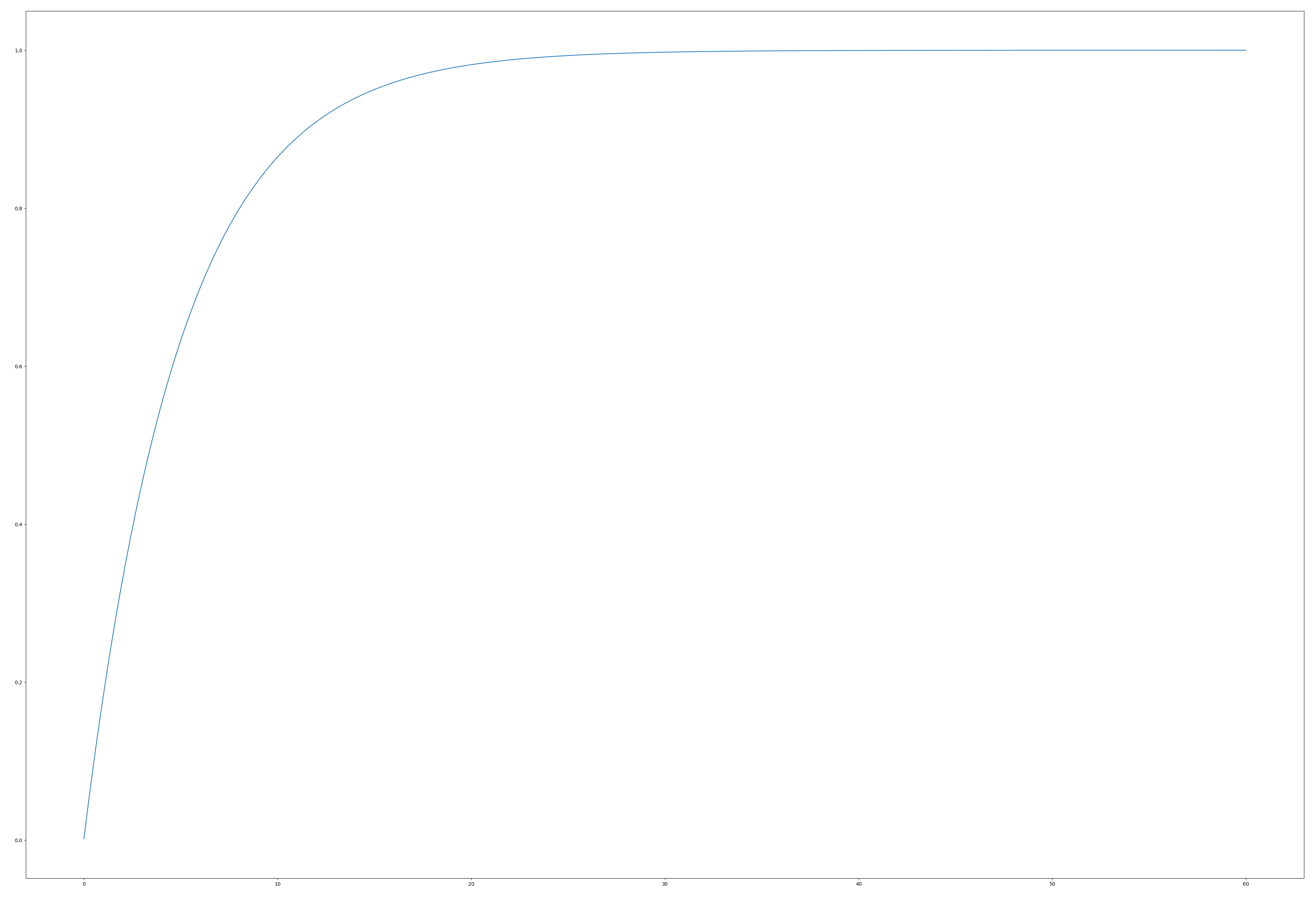
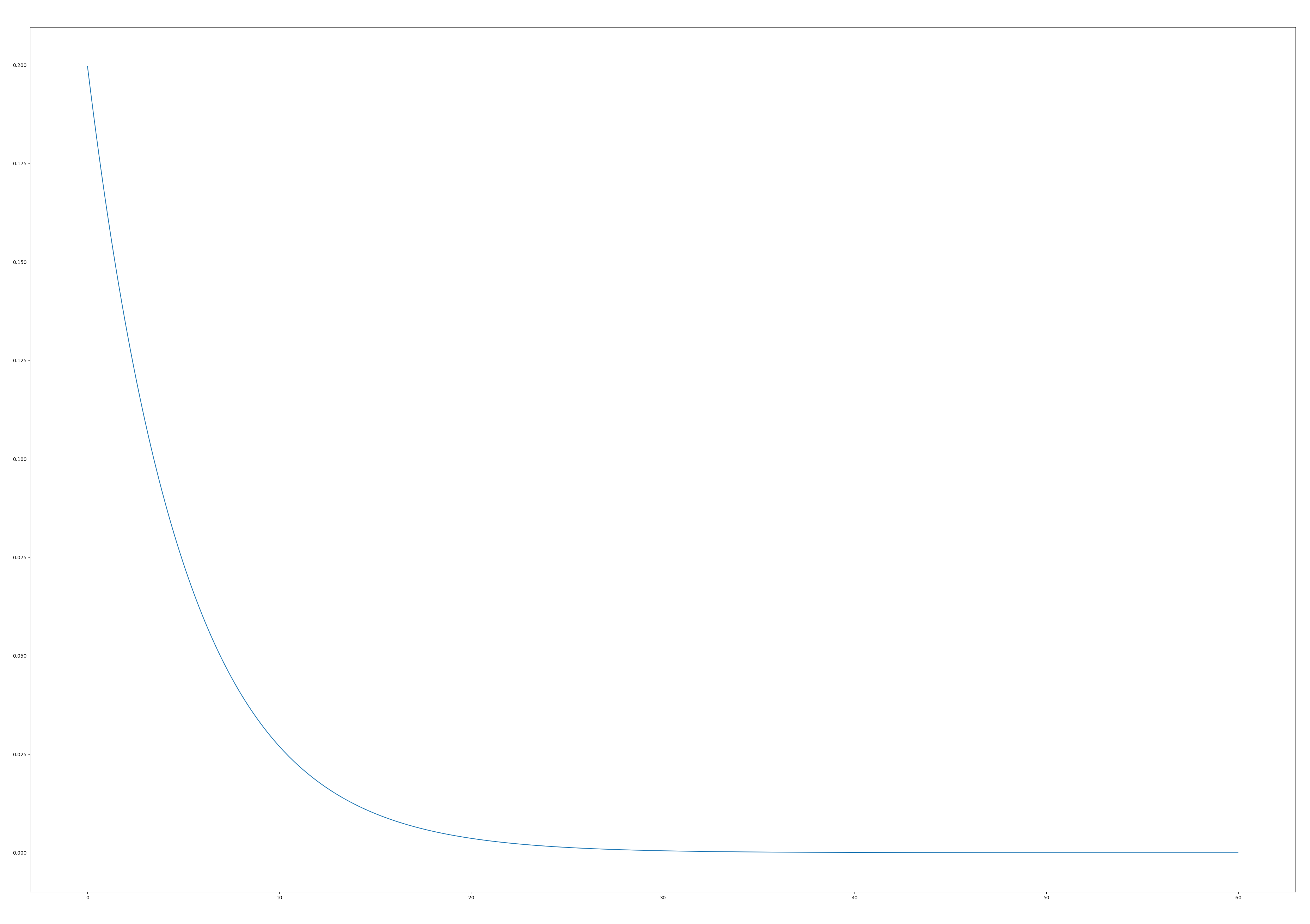
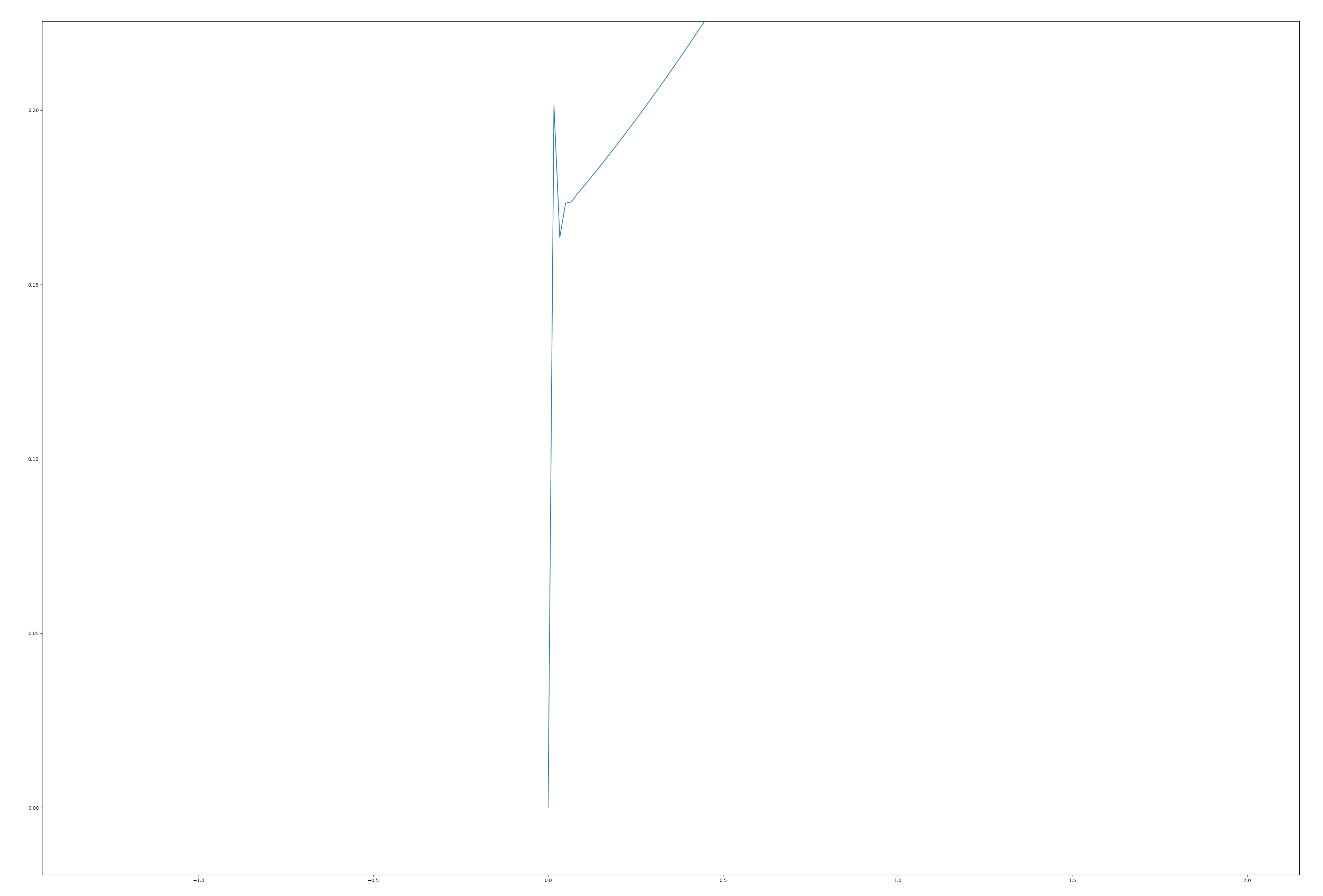
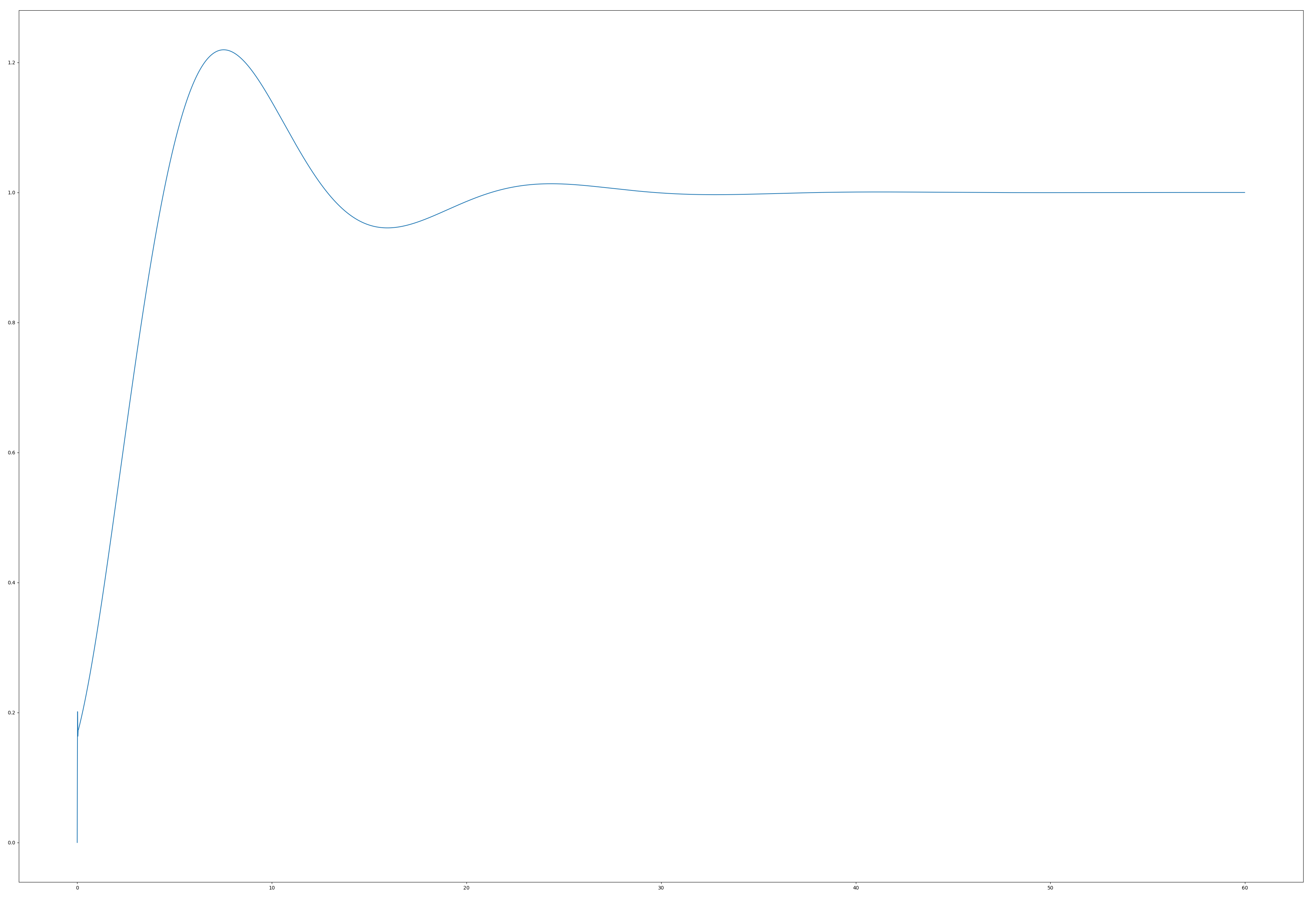
TUSTIN PT1 open step response  
T1 = 5 sec, kp = 1  
Simtime = 60 sec, ts = 1/60



DT1 Open Loop Step Response  
T1 = 5 sec, kd = 1  
Simtime = 60 sec, ts = 1/60

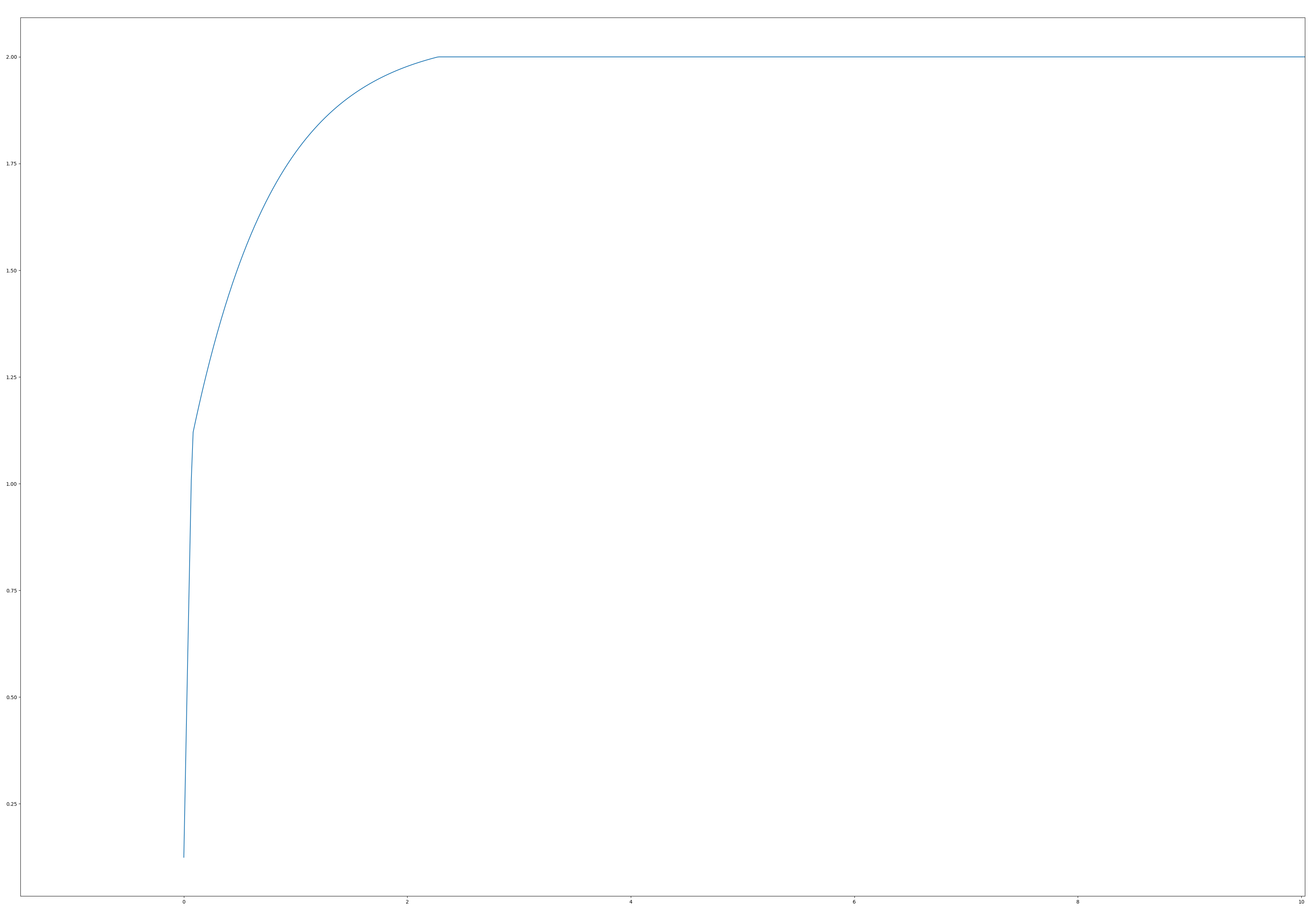


Tustin PID-T1 Closed Loop Step Response  
kp = ki = kd = 1  
t1 = 5 sec  
Simtime = 60 sec, ts = 1/60



Strategy 4 Controller Open Loop Step Response  
HEBI X5-4 standard Gains, i\_clamp & d\_on\_error not implemented  
<https://docs.hebi.us/resources/gains/X5-4_STRATEGY4.xml>

No output dampening applied



Tustin PT2 open loop step response  
T=0.5, D=0.125, kp=2, ts=1/60

Chart, line chart, histogram

Description automatically generated

Strategy 4 Controller Open Loop Step Response  
HEBI X5-4 standard Gains, i\_clamp not implemented  
https://docs.hebi.us/resources/gains/X5-4\_STRATEGY4.xml

PT2 output dampening applied with T=0.1 & D=1

Chart

Description automatically generated