The second-order linear dynamic system
step response

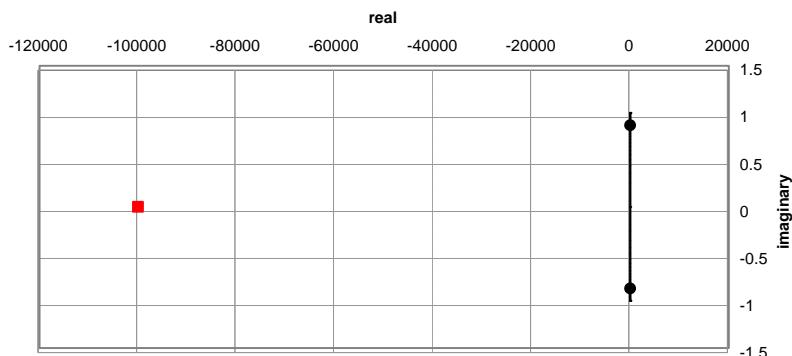|			
tau	1	characteristic time
xi	0.5	damping coefficient
K	1	steady state gain
M	0	disturbance rate-of-change
A	1	step magnitude
td	0	time of disturbance

calculated parameters

	real	imaginary
pole 1	-0.5	-0.866025
pole 2	-0.5	0.866025
zero	-100000	
M/Ktau	0	

maximum time

Poles and Zero

real
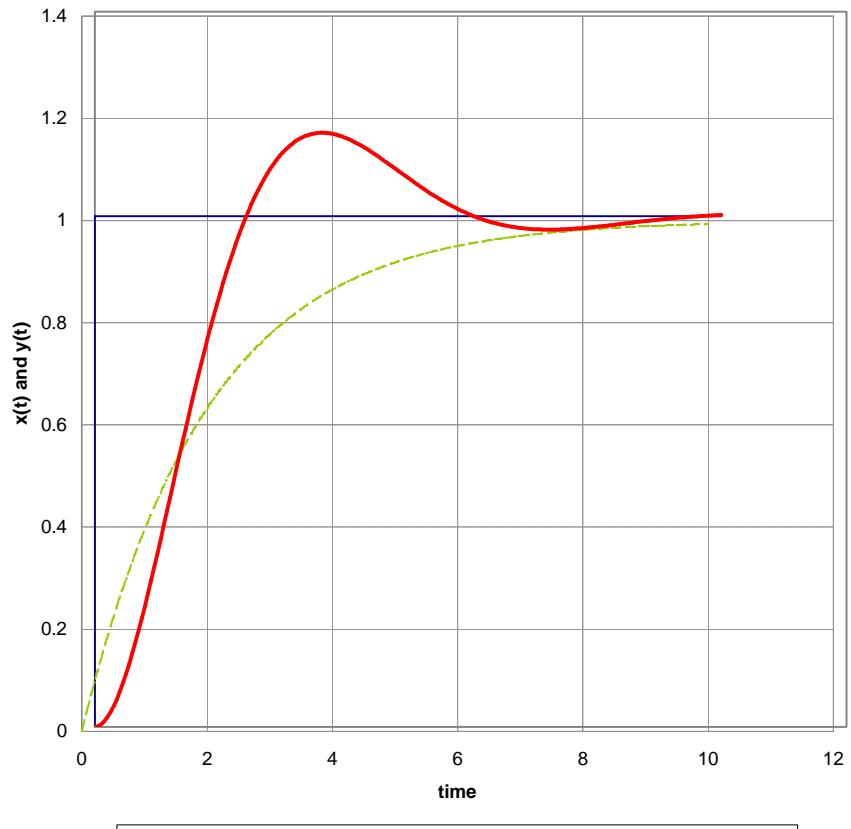
Solution Characteristic Map

Step Response