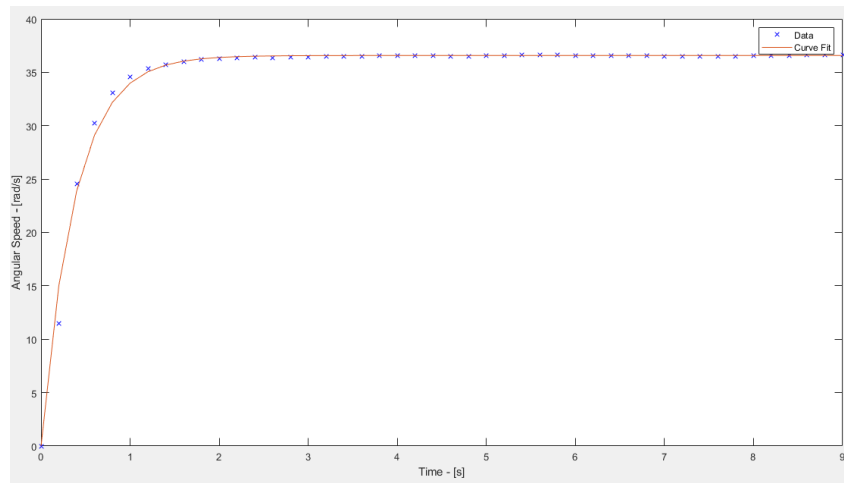


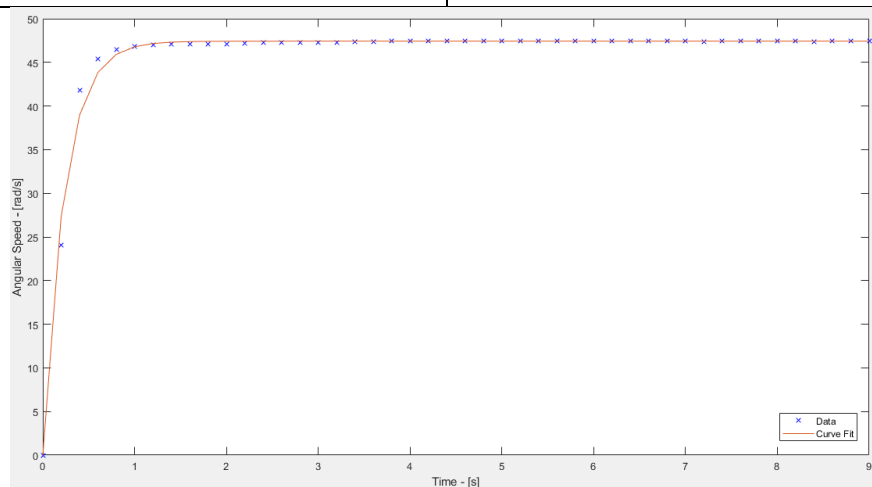
- 1) After running the experiment detailed in homework 3 and curve fitting my data, these are the parameters that I found.

General model:	$f(x) = (5*b)/a * (1-\exp(-a*x))$
a	2.625
b	19.2



Bonus)

General model:	$f(x) = (10*b)/a * (1-\exp(-a*x))$
a	4.305
b	20.42



The values found for the second experiment are not the same as the values found during the first one. This makes sense because a DC motor is in reality a 2nd order system and we are modeling it as a first order. This simplification could introduce errors into the system parameters we are estimating.