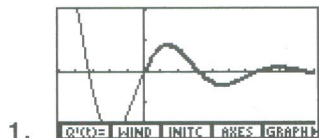
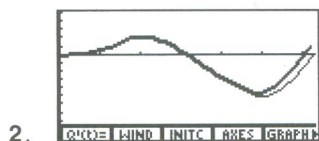


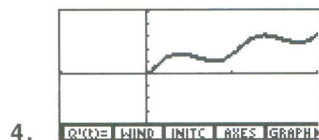
Chapter 3: Higher Order Differential Equations



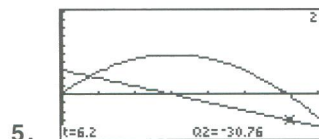
$[-5, 10] \times [-2, 2]$



$[-5, 20] \times [-150, 25]$



$[-5, 10] \times [-5, 5]$



$[0, 7] \times [-50, 100]$ About 6.2 seconds; about 30.76 m/sec down.

6.

t	Q1	Q2
1.098147	.9048075	
1.617946	.2504579	
1.754911	-.0623133	
1.790052	.0137484	
1.798695	.0017842	
1.800096	-1.34E-4	

t=1		
TBLST	SELCT	t Q

The capacitor requires about six seconds to charge up. The final charge is about 1.8.