Quiz for Problems \#6, Math 204, Dr. Bohner.
Oct 15, 2003.
A mass weighing 2 lb stretches a spring 6 inches. At time 0 the mass is released from a point 8 inches below the equilibrium position with upward velocity of $\frac{4}{3} \mathrm{ft} / \mathrm{sec}$. Determine the function $x(t)$ which describes the subsequent free motion of the mass (ignoring any damping forces). Express $x(t)$ in the form $r \sin (\omega t+\theta)$. Plot $x$.

