

Hw8

- 1 Determine ω_0 , R , and δ so as to write the given expression in the form $u = R \cos(\omega_0 t - \delta)$.
 - (1) $u = 3 \cos(2t) + 4 \sin(2t)$;
 - (2) $u = -3 \cos(2t) + 4 \sin(2t)$.
2. A mass weighting 2 lb stretches a spring 6 in. If the mass is pulled down an additional 3 in and then released, and if there is no danping, determine the position u of the mass at any time t , Find the frequency, period, amplitude, and phase of the motion.