

Section 5.4

The motion of a mass

$$F = F_g + F_R + F_E$$

Frequency

Undamped motion

$$u(t) = A \cos(\omega_0 t) + B \sin(\omega_0 t)$$

$$m = 3, c = 30, k = 63, x_0 = 2, v_0 = 2$$

with damping

$$m = 3, c = 30, k = 63, x_0 = 2, v_0 = 2$$

without damping