Section 5.6

$$mx'' + cx' + kx = F(t)$$

Undamped Forced Oscillation

Damped Forced Oscillation

$$mx'' + cx' + kx = F(t)$$

$$x'' + 8x' + 25x = 200\cos t + 520\sin t; \; x(0) = -30, \; x'(0) = -10$$

$$x'' + 8x' + 25x = 200\cos t + 520\sin t; \; x(0) = -30, \; x'(0) = -10$$