Math 20750
Spring, 2016

Extra Credit Assignment due at start of final exam

Reread §§4.7 and 9.9 in Polking, Boggess and Arnold.

Do:
§4.7 #26,35,39 Typo: the ODE in the instructions for #35 should be

$$x'' + 2cx' + \omega_0^2 x = A \cos \omega t.$$

§9.9 #6,12,15,17

On §9.9 #6, compute $\mathbf{v}'(t)$ by hand. After you do that, you can (and probably will want to) compute $\mathbf{v}(t)$ and $\mathbf{Y}(t)\mathbf{v}(t)$ using MATLAB or some other computer algebra system.