

Reading - what we have covered since the QPS - Laplace: Chapter 8 Sections 8-10 (not the bit on Fourier transforms)

- (1) Boas pg 423 problem 15 - a general solution for driven, damped oscillation
- (2) Write

$$\frac{3i - 7}{i + 4}$$

in the $x + iy$ and the $re^{i\theta}$ forms.

- (3) Find the Laplace transform of

$$4t^2 - 3$$

by direct integration. (Feel free to use the same method as we did in class.) Check your result with a table or maple.