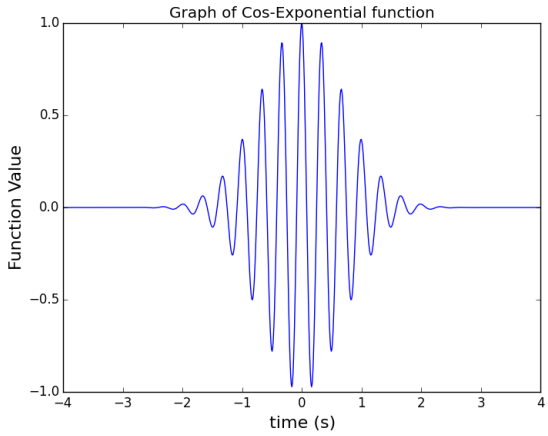
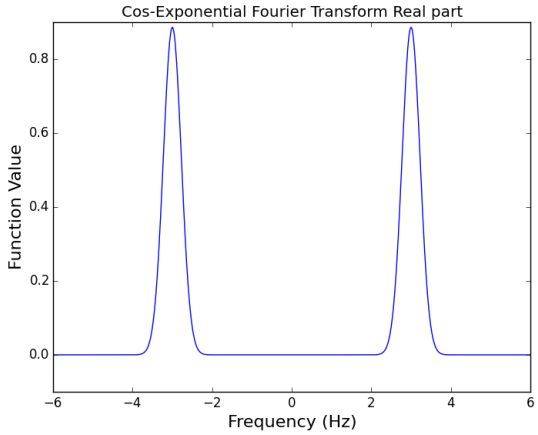
Lesson 20: Fourier Analysis

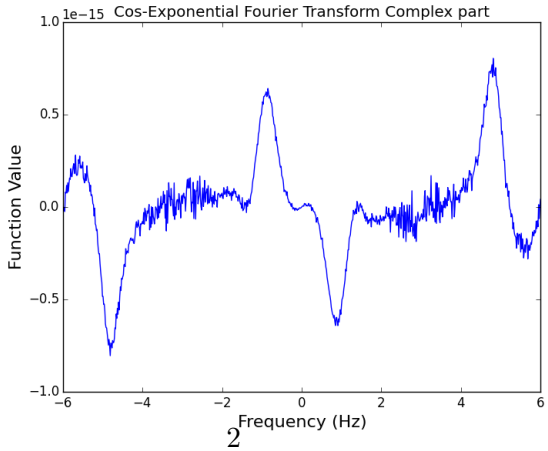
Colt Bradley



(a) $a(t)$ vs time

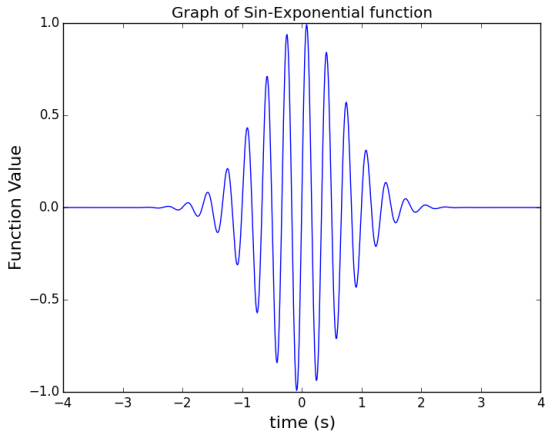


(b) Real part of $A(f)$ vs frequency

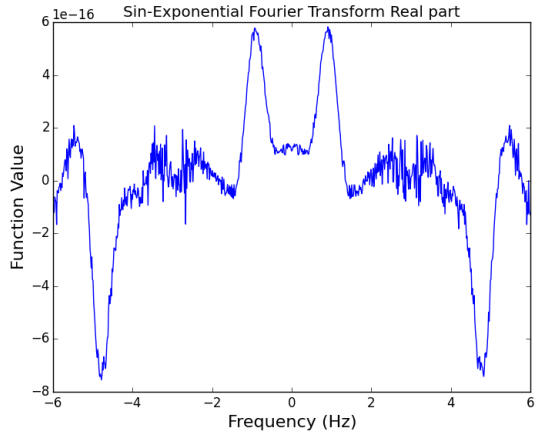


(c) Complex part of $A(f)$ vs frequency

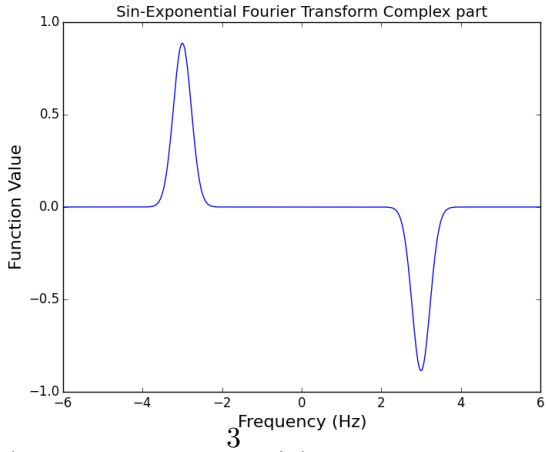
Figure 1: Various plots for $\cos(6\pi t)e^{-t^2}$



(a) $a(t)$ vs time

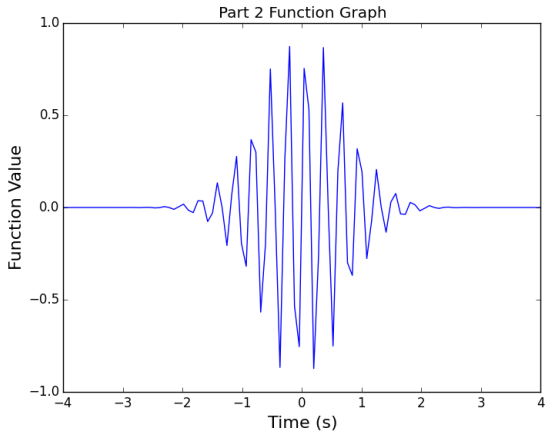


(b) Real part of $A(f)$ vs frequency

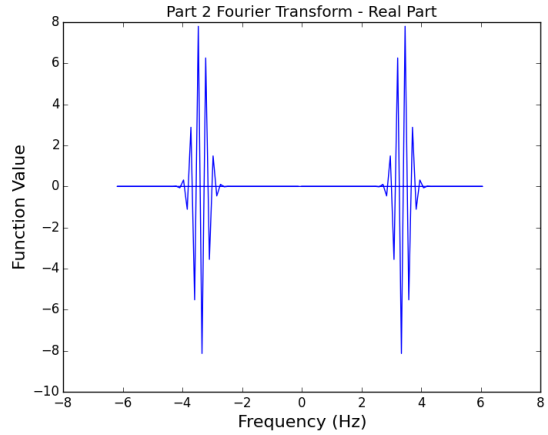


(c) Complex part of $A(f)$ vs frequency

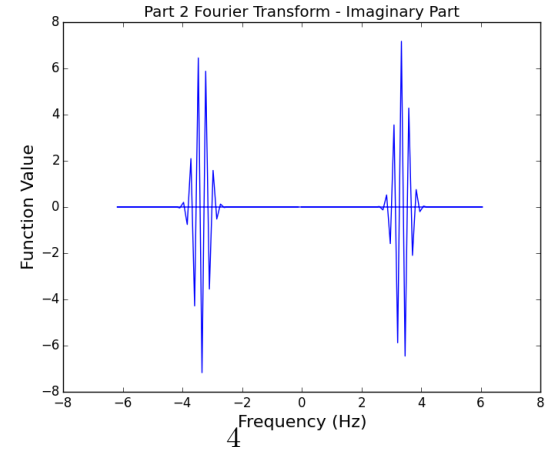
Figure 2: Various plots for $\sin(6\pi t)e^{-t^2}$



(a) $a(t)$ vs time



(b) Real part of $A(f)$ vs frequency



(c) Complex part of $A(f)$ vs frequency

Figure 3: Various plots for $\cos(6\pi f_0 t)e^{-t^2}$