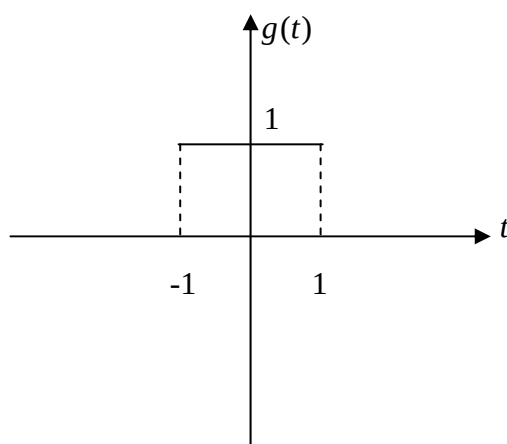
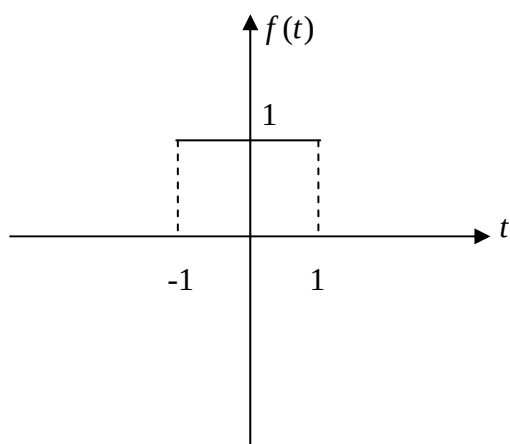


年級：_____ 姓名：_____ 學號：_____

國立台灣海洋大學河海工程學系 2004 工程數學（三）第九次小考

1.



(1) Find $F(\omega) = ?$

(2) Find $f(t) * g(t) = ?$

(3) Find $\int_{-\infty}^{\infty} |F(\omega)|^2 d\omega = ?$

(4) Find $\int_{-\infty}^{\infty} f^2(t) dt = ?$

(5) Find $\int_{-\infty}^{\infty} (f(t) * g(t))^2 dt = ?$