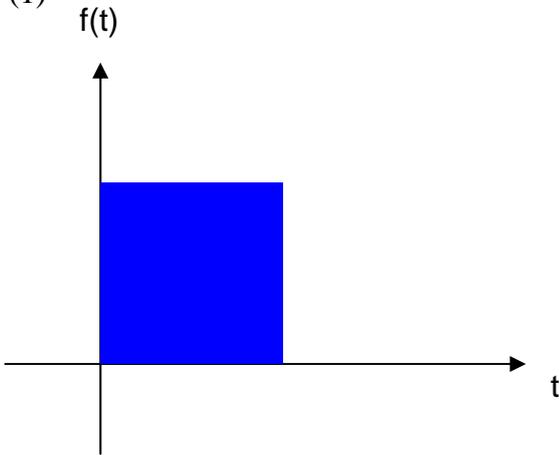


Homework 2014-06-04 工程數學(二) 2B班 第十二次課堂小考

系級: \_\_\_\_\_ 學號: \_\_\_\_\_ 姓名: \_\_\_\_\_

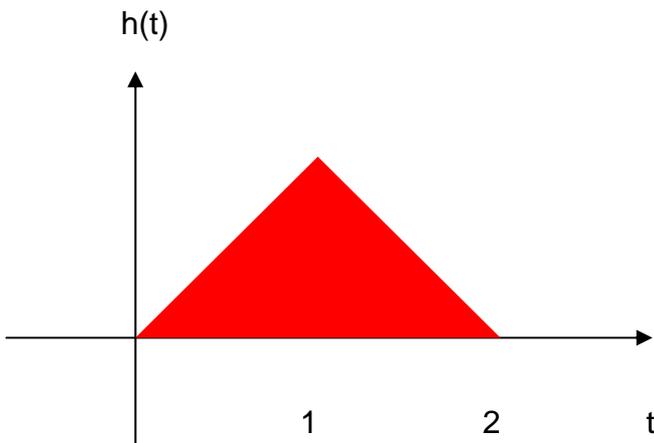
請做出以下傅立葉轉換

(1)



$$f(t) = \begin{cases} 1, & 0 \leq t \leq 1 \\ 0, & \text{otherwise} \end{cases}$$

(2)



$$h(t) = \begin{cases} t, & 0 \leq t < 1 \\ 2-t, & 1 \leq t < 2 \\ 0, & t < 0 \text{ \& } t > 2 \end{cases}$$