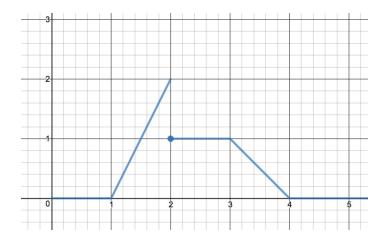
## MATH 256-201

## Tutorial 7 Worksheet March 6, 2017

Surname:	Given name:
Student number:	

1. Write an expression for the function f(t) shown below using Heaviside functions. In your final answer, all terms should be in the form  $u_c(t)g(t-c)$  for some g, such that the Laplace transform is easy to compute.



2. Use Laplace transform to solve the following initial-value problem

$$\begin{cases} y'' + 4y' + 13y = 0\\ y(0) = 1\\ y'(0) = 4 \end{cases}$$