## hw\_fourier

February 26, 2019

## todo

Find the characteristic function of  $W_t$  by deriving

$$\phi_t(u) = \mathbb{E}[e^{iuW_t}].$$

## todo

Use the explicit formula to find BSM call price with the following paras.

## todo

Use the fourier transform method to find out the same BSM call price.