# Excercise Sheet 1 – Math Primer

## H1.1 Distribution and expected values

1. Paramter c

To show :

* therefore, c = 0.5

As sin(x) in the range of 0 to maps to [0,1], 0.5 \* sin(x) maps to [0,0.5], which is in the range of 0 to 1.

1. Expected Value
2. Variance