

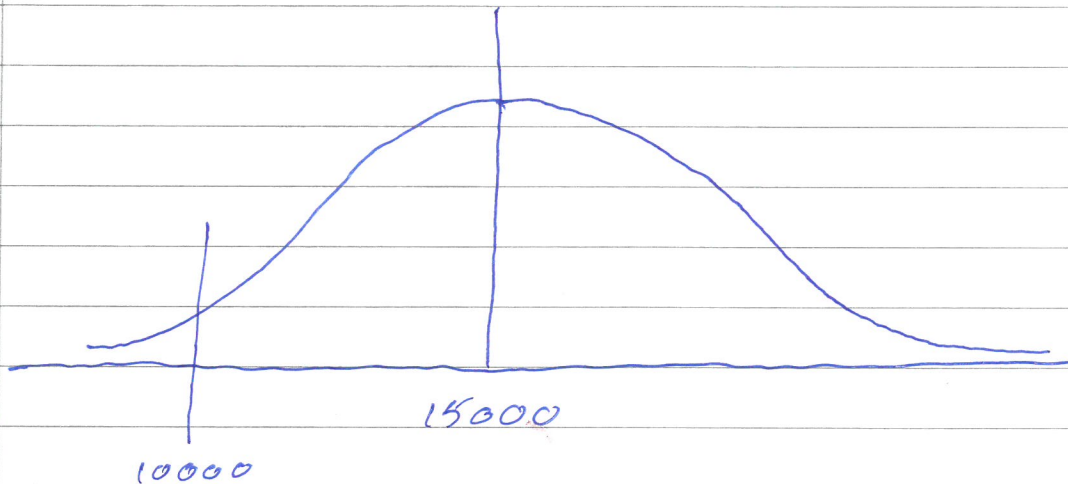
Comments on EG4012 Coursework 1

1 (i) Excel probability calculations

Mathematics Lectures - refer to probability calculations.

(ii) Excel Worksheet 2 - Pages 4-6 (Monte Carlo Simulation)

2. Normal Distribution (Mathematics Lectures)



Prob fails before 10000 - area to the left

Prob fails after 10000 - area to the right

Excel Worksheet 2 - Pages 7-8

Lifetimes normally distributed with Mean μ and Standard Deviation σ then Excel function

$\text{NORM.DIST}(X, \mu, \sigma, \text{True})$

gives the probability that lifespan is less than X .

The NORM.INV function gives a lifespan related to a probability

3. Plotting - Maple Worksheet 1 Pages 11-13

orange + signs (orange cross symbols)

distinguish between plotting lines & plotting symbols, you need to remove the 'line' setting

Differentiation - Maple Worksheet 2 Page 1

Integration - Maple Worksheet 2 Pages 6-8.

Evaluate integral given applied to the 2 curves representing the circle.

Determine appropriate values for a and b .