

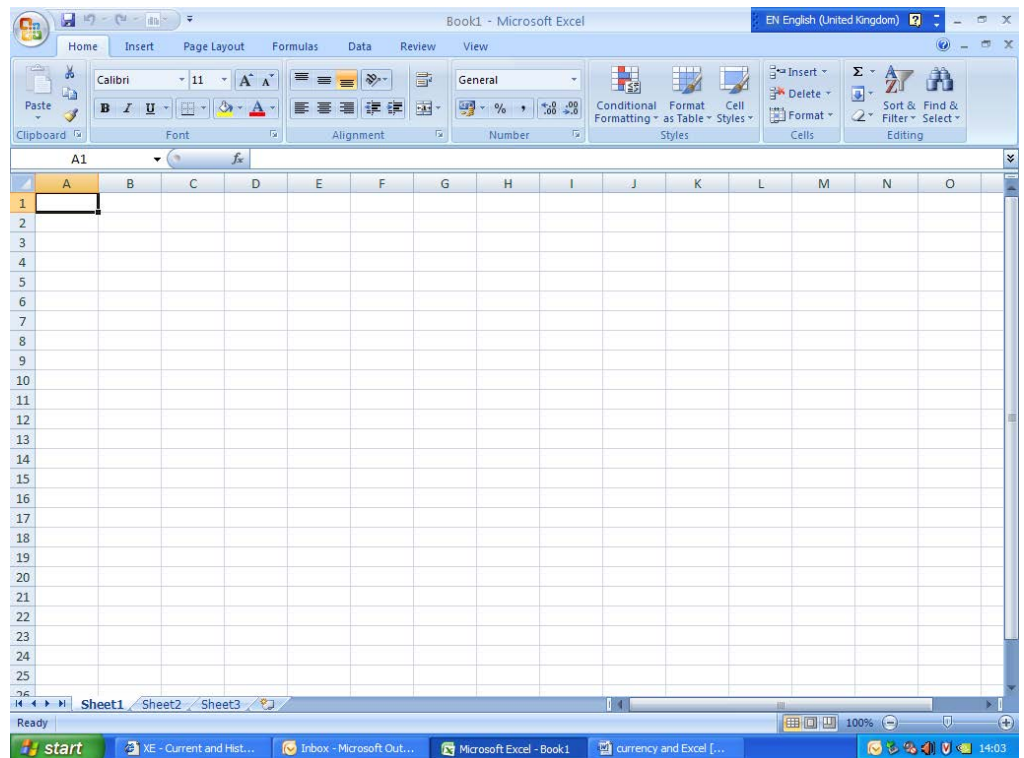
# Trial and Improvement and Excel

Excel makes Trial and Improvement very easy 😊

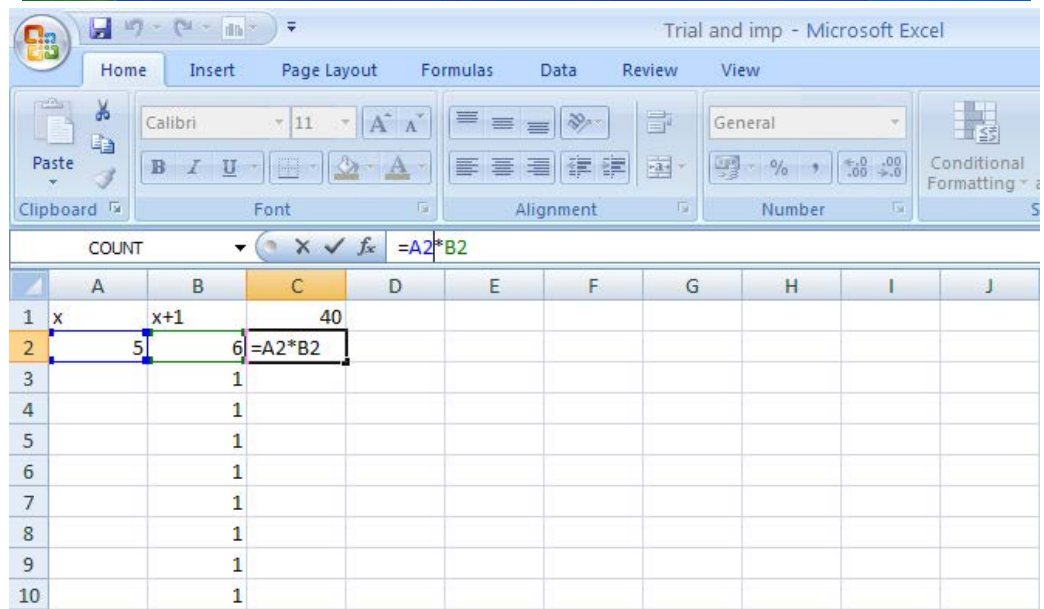
## Instructions

Solve  $x(x+1) = 40$  to FIVE decimal places

- 1) Go to **start**, click on **All Programs <Microsoft Office < Microsoft Excel**
- 2) You will have a blank spreadsheet in front of you. In cell A1, type  $x$
- 3) In cell B1, type  $x+1$
- 4) In cell C1, type 40



- 5) In cell A2, enter a suitable starting  $x$  value, for example 5
- 6) In B2, enter  $'=A2+1'$
- 7) Grab the square in the bottom right hand corner. It will turn into a cross, which you can use to drag down to A8.
- 8) In cell C2, enter the formula  $'= A2 * B2'$
- 9) Drag the formula down as before by grabbing the corner (ignore the 1s and 0s)



	A	B	C	D
1	x	x+1	40	
2	5	6	30	
3	6	7	42	
4	5.7	6.7	38.19	
5		1	0	
6		1	0	
7		1	0	
8		1	0	
9		1	0	
10		1	0	
11		1	0	
12		1	0	
13				

10) Now start entering values into the A column that you want to test

11) Try questions 1, 3, 8, 10, 12 in exercise 6, page 47 using Excel

**NB: To raise to a power use ^**