

Business Mathematics (BK/IBA) – Quantitative Research Methods I (EBE)
Digital test retake 2

Question 1

b)

Family name	Galt
Given name	John
Student number	1234567
Programme	IBA
Date	25 April 2016

Question 2

a)

$$\theta(x) = \begin{cases} \int_0^x \left(e^{\frac{1}{2\xi}} \right) d\xi & \text{if } x \geq 0 \\ 0 & \text{otherwise} \end{cases}$$

b)

$$\mathbf{A}^{-1} + \mathbf{a} \times \mathbf{a}'$$

c)

$$S = \sum_{i=1}^n p_i$$

where p_i is the number of places at table i , n is the number of tables, and T is the total number of seats.

Question 3

b)

Formula in N5	=F5/(C5+I5) or =\$F5/(\$C5+\$I5)
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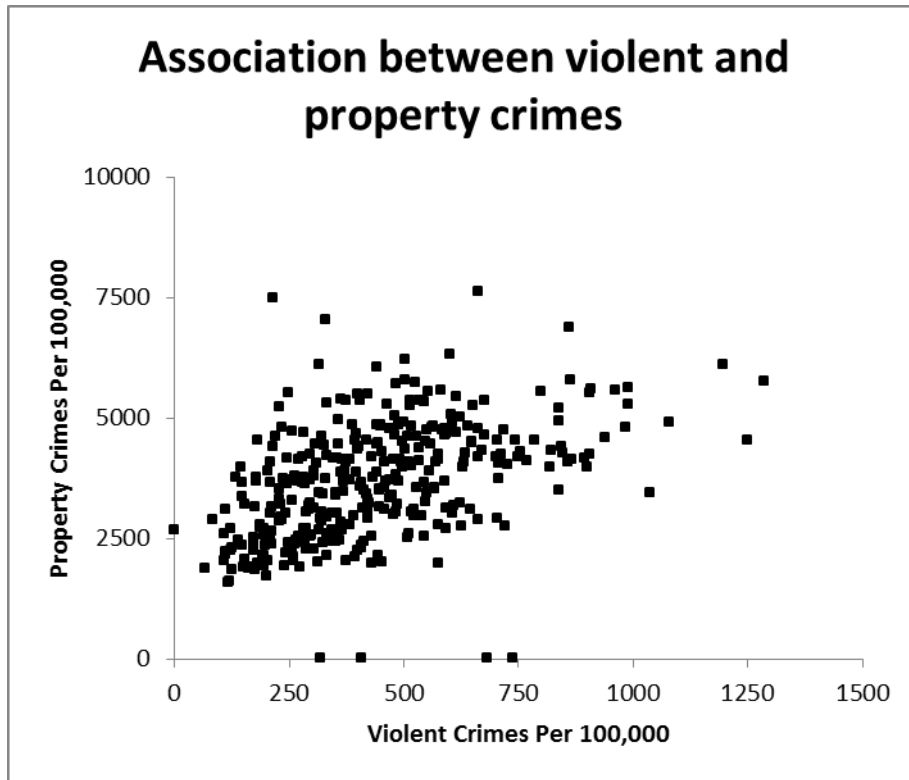
c)

Formula in O5	=IF(C5<=100;"safe";"unsafe") or =IF(\$C5<=100;"safe";"unsafe")
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d)

Formula	=COUNTIF(D5:D354;"<=5") or =COUNTIF(D:D;"<=5")
Value	213

e)



f)

Formula in P5	=P\$3*L5
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Question 4

a)

answers.xlsx - Microsoft Excel

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Get External Data Refresh All Connections Sort Filter Clear Reapply Advanced Text to Columns Remove Duplicates Outline Data Analysis Solver Analysis

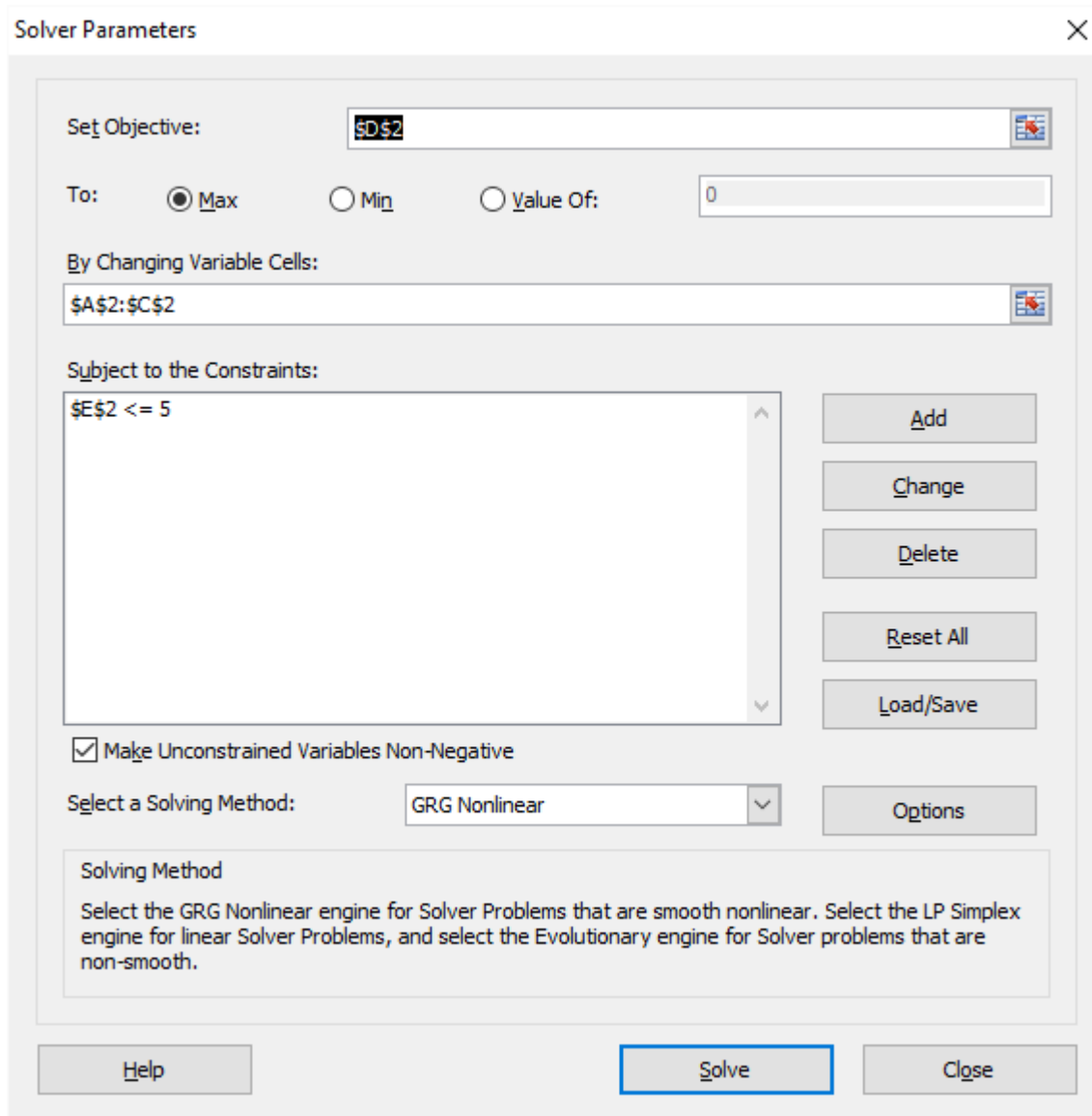
V6 f_x {=MMULT(Q6:T9;V1:V4)}

	O	P	Q	R	S	T	U	V	W	X
1			1	-1	1	0		0		-12
2			1	-1	2	0		4		-8
3			2	-3	0	-1		3		
4			0	1	0	-3		-2		-2
5										
6			5	-2.5	-0.75	0.25		-12.75		
7			3	-1.5	-0.75	0.25		-8.75		
8			-1	1	0	0		4		
9			1	-0.5	-0.25	-0.25		-2.25		
10										

Crime Rates Extra Sheet Sheet1

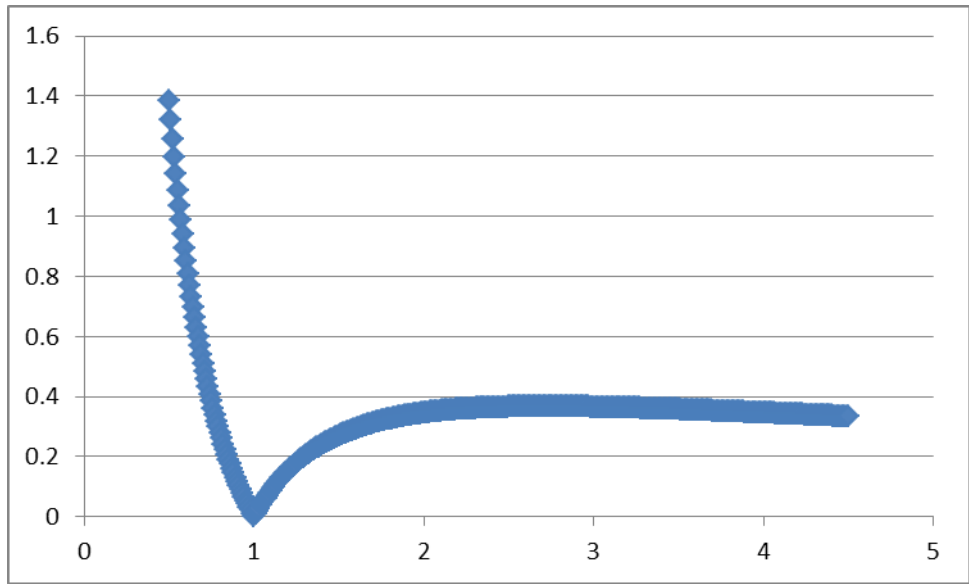
Ready 100%

b)



Formula for f	$= (A2^2 + (B2+1)^2) * \text{EXP}(\text{SQRT}(C2))$
Value of f	24.92558

c)



d)

answers.xlsx - Microsoft Excel

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Get External Data Refresh All Connections Sort Filter Sort & Filter Clear Reapply Advanced Text to Columns Remove Duplicates Data Tools Outline Solver Data Analysis

Cell: I6 Formula: $\{=MMULT(E6:G8;TRANSPOSE(E6:G8))\}$

	C	D	E	F	G	H	I	J	K	L
3										
4										
5										
6			3	1	0		10	-3	3	
7			-1	0	2		-3	5	-7	
8			1	0	-3		3	-7	10	
9										
10										
11										
12										

Ready 100%

Formula(s)	$\{=MMULT(E6:G8;TRANSPOSE(E6:G8))\}$
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Do not forget to save this file regularly!
 Ready? Use the icon “Tentamen inleveren” to upload your work.