

Solutions Lab-session 2

1)

	A	B	C	D	E	F	G	H	I	J	K
1	11	7									
2		3									
3		22									
4		30									
5		12									
6					a):	2,0183					
7					b):	2,0183					
8											
9											
10	11	7			c):	5832					
11					d):	5832					
12											
13											
14											
15											
16											
17											
18					e):	5832					
19											
20											
21											
22											

Formulas and callouts:

- Row 6: $=1/(1/B2+1/B3+1/B4+1/B5)$
- Row 7: $=(1/B2+1/B3+1/B4+1/B5)^{-1}$
- Row 10: $=(A1+B1)^3$
- Row 11: $=A1^3+3*A1^2*B1+3*A1*B1^2+B1^3$
- Row 18: $=(x+y)^3$

2)

	A	B	C	D	E	F	G	H	I	J	K	L	M	
1			Currency conversion table											
2										Date:	13-oct-09			
3										Euro in Pounds	0,9333			
4										Euro in Dollar	1,4765			
5														
6														
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28														

Summary Row (Row 18):

€ 58,70	£54,78	\$ 86,67
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3)

	A	B	C	D	E	F
1						
2						
3						
4						
5						
6						
7						
8						
9		a)	=FV(0,5%;60;-200;-2500;0)	=	17326,13	
10						
11		b)	=IF(x=0;1;SIN(x)/x)			
12						

4)

	A	B	C	D	E
1	Quadratic equations $ax^2 + bx + c = 0$				
2					
3					
4					
5			a	b	c
6		4	14	6	
7					
8	Discriminant:	=b^2-4*a*c			
9	Number of real roots:	=IF(B8>0;2;IF(B8=0;1;0))			
10	Root 1:	=IF(B9=2;(-b+SQRT(B8))/2/a; IF(B9=1; -b;"complex roots"))			
11	Root 2:	=IF(B9=2;(-b-SQRT(B8))/2/a; IF(B9=1; -b;" "))			
12					