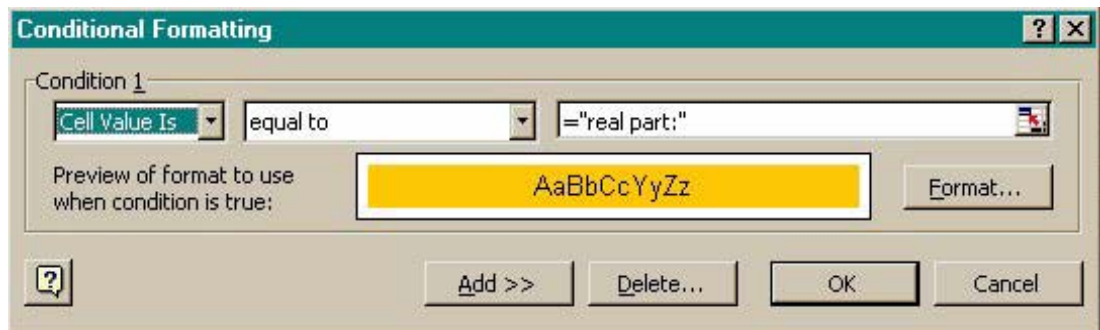


## Solutions Lab-session 2

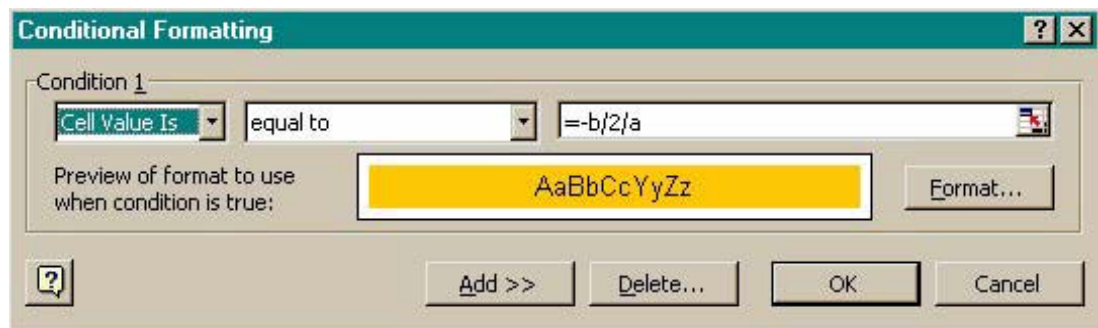
1)

C	D	E	F
<b>Quadratic equations <math>ax^2 + bx + c = 0</math></b>			
a	b	c	
2	10		
B=			
Qf=IF(B9=0,"real part:"," ")	=IF(B9=0,-b/2/a," ")	=IF(B9=0,"complex part:"," ")	=IF(B9=0,SQRT(-B8)/2/a," ")
QF=IF(B9=0,"real part:"," ")	=IF(B9=0,-b/2/a," ")	=IF(B9=0,"complex part:"," ")	=IF(B9=0,-SQRT(-B8)/2/a," ")

These eight cells should be added.



Conditional formatting in C10 and C11.



Conditional formatting in D10 and D11.

- 2) a) =IF(B4 >40, IF(C4 >=35, IF(D4 >50, IF(E4 >=40, IF(F4 >=40, IF(G4 >=40, "Pass", "Fail"), "Fail"), "Fail"), "Fail"), "Fail"), "Fail")
- b) =IF(AND(B10 >40, C10 >=35, D10 >50, E10 >= 40, F10 >=40, G10 >=40), "Pass", "Fail")

3) In C6: =HLOOKUP(B6,\$B\$2:\$E\$3,2)

Improved version: =IF(G6>=50,HLOOKUP(G6,\$B\$2:\$E\$3,2), " ")

4)

	A	B	C	D
1	Symbol	Atomic weight	Name	Number
2	Ac	227	Actinium	89
3	Al	26.981539	Aluminium	13
4	Am	243	Americium	95
5	Sb	121.75	Antimony	51
6	Ar	39.948	Argon	18
7	As	74.92159	Arsenic	33
8	At	210	Astatine	85
9	Ba	137.327	Barium	56
10	Bk	247	Berkelium	97
11	Be	9.012182	Beryllium	4
12	Bi	208.98037	Bismuth	83
13	B	10.811	Boron	5
14	Br	79.904	Bromine	35
15	Cd	112.411	Cadmium	48
16	Ca	40.078	Calcium	20
17	Cf	251	Californium	98
18	C	12.011	Carbon	6
19	Ce	140.115	Cerium	58
20	Cs	132.90543	Cesium	55
21	Cl	35.4527	Chlorine	17
22	Cr	51.9961	Chromium	24

Part of the periodic table

F5 contains the lookupvalue.

G5: =VLOOKUP(\$F\$5,\$A\$2:\$D\$110,4,FALSE) produces the atomic number.

H5: =VLOOKUP(\$F\$5,\$A\$2:\$D\$110,3,FALSE) produces the name.

I5: =VLOOKUP(\$F\$5,\$A\$2:\$D\$110,2,FALSE) produces the atomic weight.