

Solutions Lab-session 3

1)

E	F	G	H	I
	Symbol	Number	Name	Atomic Weight
	Ar	18	Argon	39.948
	Formula			
	symbol:	C	H	O
	times:	12	22	11
	partial mass:	144.132	22.17468	175.9934
	molecular weight:	342.3		

Molecular weight sugar

G10: =IF(G\$8 <> 0, VLOOKUP(G\$8,\$A\$2:\$D\$110,2,FALSE)*G\$9," ")

H10: =IF(H\$8 <> 0, VLOOKUP(H\$8,\$A\$2:\$D\$110,2,FALSE)*H\$9," ")

I10: =IF(I\$8 <> 0, VLOOKUP(I\$8,\$A\$2:\$D\$110,2,FALSE)*I\$9," ")

G11: =ROUND(SUM(G10:K10),2)

2) a) Function Stir(n)

$$\text{Stir} = n * \text{Log}(n) - n$$

End Function

b) $\ln(100!) = 363.7393756$, $\text{Stir}(100) = 360.5170186 \rightarrow 99.11\%$

3) a) Function sinapp(x)

$$\text{sinapp} = x - x^3 / 6$$

End Function

b) $\sin(0.1) = 0.099833417$, $\text{sinapp}(0.1) = 0.099833333 \rightarrow 99.99991655\%$

4) Function celsius(Fa)

$$\text{celsius} = (\text{Fa} - 32) * 5 / 9$$

End Function

Fa(90)→32.22

5) Function addst(x As String, y As String, z As String) As String

$$\text{addst} = x \& " " \& y \& " " \& z$$

End Function