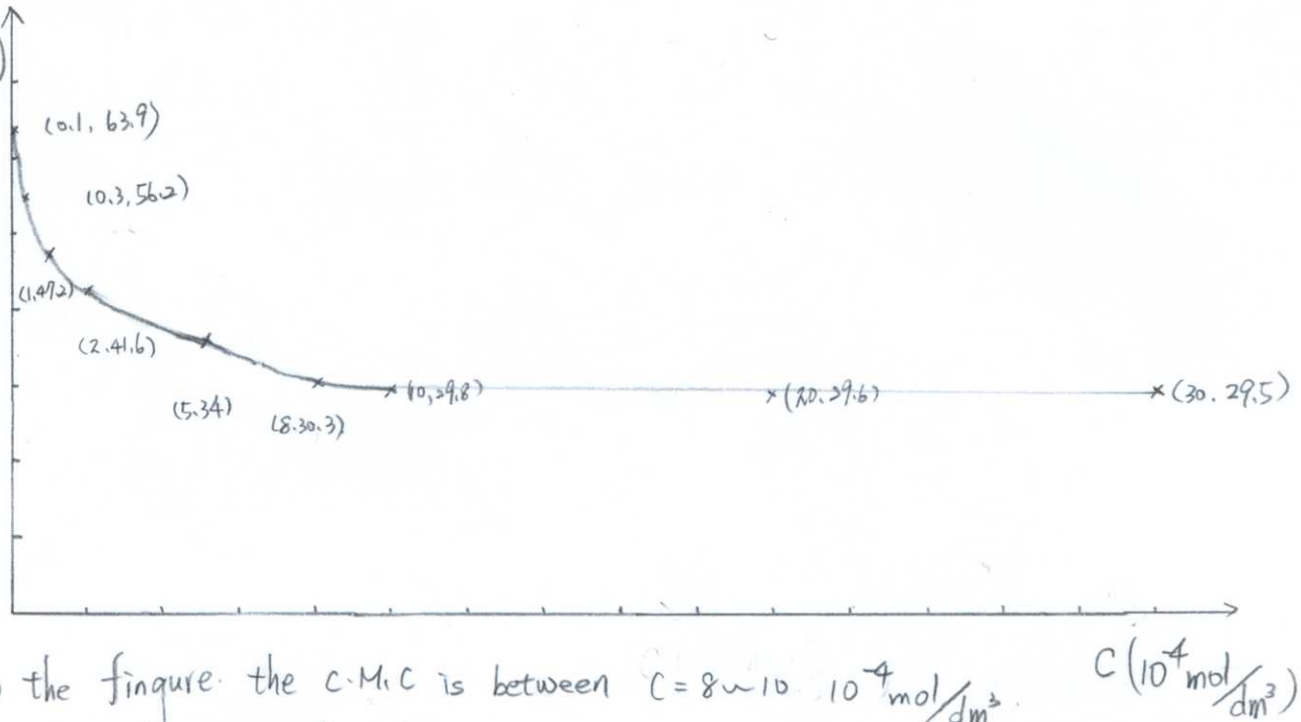
8.



from the fingure the C.M.C is between $C = 8 \sim 10 \ 10^{-4} \ mol/dm^3$.
the C.M.C is about $9 \times 10^{-4} \ mol/dm^3$.

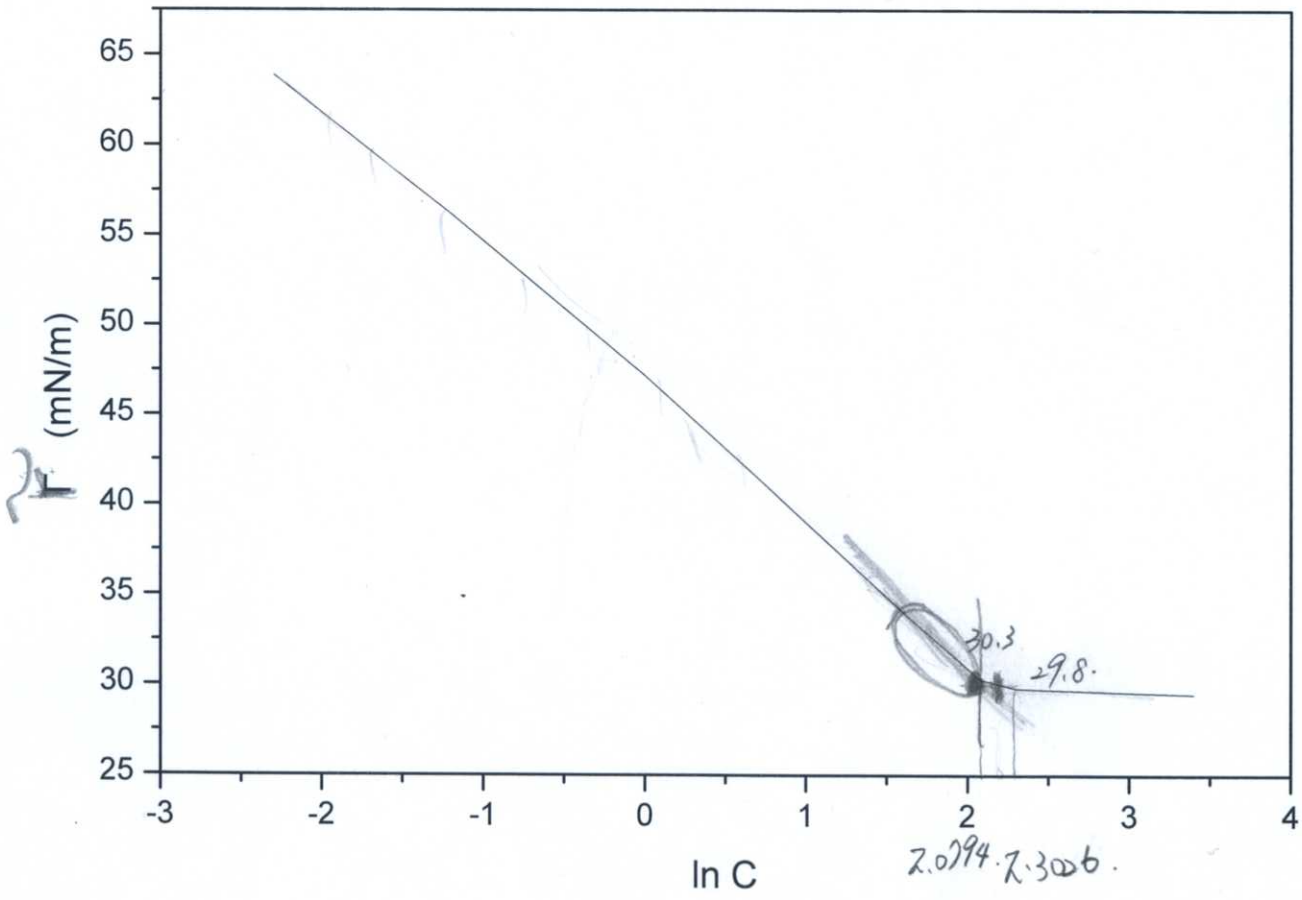
γ mN/m	63.9	56.2	47.2	41.6	34.0	30.3	29.8	29.6	29.5
→ C 10^{-4} mol/dm³	0.1	0.3	1.0	2.0	5.0	8.0	10.0	20.0	30.0
ln C	-2.3	-1.2	0	0.69	1.61	2.08	2.30	2.99	3.40

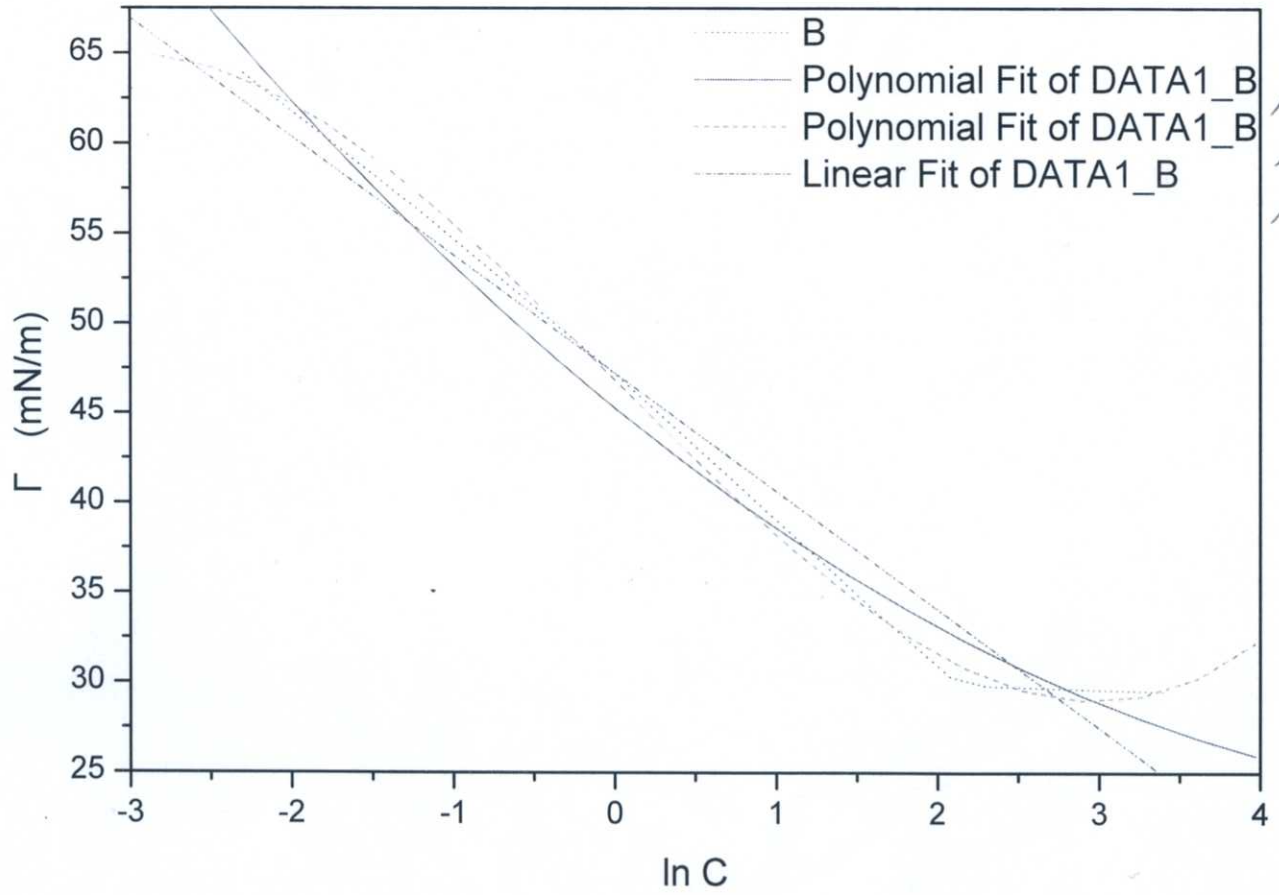
$$\Gamma = -\frac{1}{KT}\frac{d\gamma}{d\ln C} = \frac{-1}{1.38\times10^{-23}\times298} \times \frac{d\gamma}{d\ln C}$$

at C.M.C. $\ln 9 = 2.2$ $\left.\frac{d\gamma}{d\ln C}\right|_{2.2} \fallingdotseq -8 \ (10^{-3} \ N/m)$

$$A = \frac{1}{\Gamma} = -1.38\times10^{-23}\times298\times\frac{1}{-8\times10^{-3}} = 50\times10^{-20} \ m^2/molecular$$

日-1

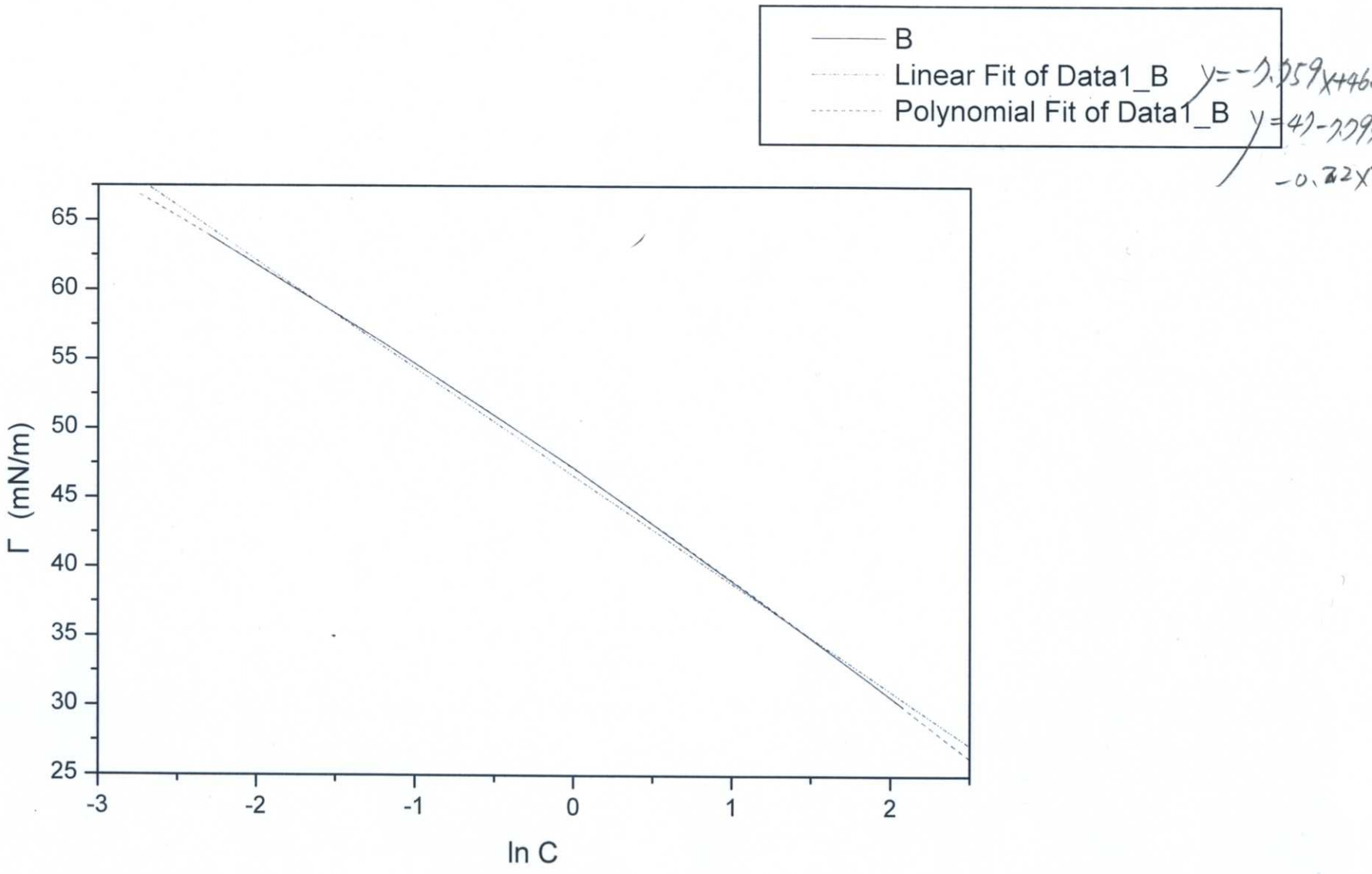




$y = 46.86 - 9x + 0.01x^2 + 0.33x^3$

$y = 45.28 - 7.3x + 0.61x^2$

$y = 47 - 6.6x$


B
Linear Fit of Data1_B
Polynomial Fit of Data1_B
Γ (mN/m)
ln C
65
60
55
50
45
40
35
30
25
-3
-2
-1
0
1
2