DIFFUSION ACROSS THE MEMBRANE

Name: .....

Group:.....

Date: .....

1. Goal of the experiment: .....

   .....

2. Refractive index of the solution: n_0 = ...

   Refractive index of water: n_w = ...

   Initial concentration of the solution: c_0 = ...

   Volume of the solution: V = ...

3. Results of measurements of the solution concentrations:

	time	refractive index		Percentage concentration of the solution		$\frac{c_0}{c_0 - 2c_B}$	$\ln\left(\frac{c_0}{c_0 - 2c_B}\right)$
		n_A	n_B	c_A	c_B		
1							
2							
3							
4							
5							
6							
7							

Make a graph of the function $\ln\left(\frac{c_0}{c_0 - 2c_B}\right) = f(t)$

4. Value of the proportionality coefficient a:

   a = ...

5. The membrane thickness dx = ...

6. The constant of the measuring system C = ...

7. The diffusion coefficient D = ...

8. The membrane permeability P = ...

Conclusions: .....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....