ELECTROMOTIVE FORCE OF CONCENTRATION CELL

			Name:							
		Group:								
						Date:				
1	. G	Goal of the experiment:								
	•••							•••••		
2	. M	easurement of t	the electrode potent	ial of silver elect	trodes.					
Electrode potential of the calomel reference electrode: $\Delta V_{_{\rm r}} =$										
	va	value of the $\frac{RT}{zF}$ constant =								
		concentration c	measured electromotive force	calculated e potent	ial	$\frac{RT}{zF}$ Inc		calculated standard electrode potential ΔV_0 **		
		mole/dm³	mV	mV	mV		mV		mV	
	L									
2	2									
:	3									
4	1									
								mea	an:	
* $\Delta V_{ m e} =$ formula										
** $\Delta V_0 =$										
									anco ac a	
									ence as a	
	Co	Concentration c_1 in the left half-cell is equal to 0.1 mole/dm ³ .								
		C ₂	EMF (experimental value)	$\ln \frac{c_1}{c_2}$	EMF* (T ₁) (calculated)		EMF* (T ₂) (calculated)		EMF** (calculated)	
		mole/dm³	mV		mV		mV		mV	
Ī	1									
Ī	2									
ľ	3									
E	MF*	' - based on th	ne Nernst equation at	t two different t	emperatu	res: T ₁ –	the actual tem	ıp., 7	- ₂ = 18°C	
			<i>EMF</i> * =		formula					
Ε	MF*	'* - based on th	ie calculated electro							
				•	•		•			
EMF * * =formula										

Make a graph of the function: $EMF = f\left(\ln\frac{c_1}{c_2}\right)$ for both: the experimental and theoretical (calculated) value. Conclusions: