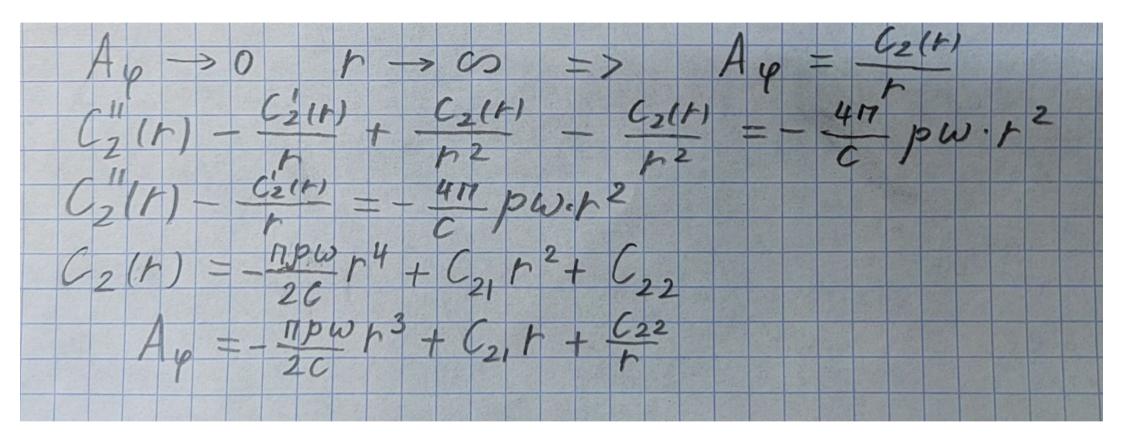
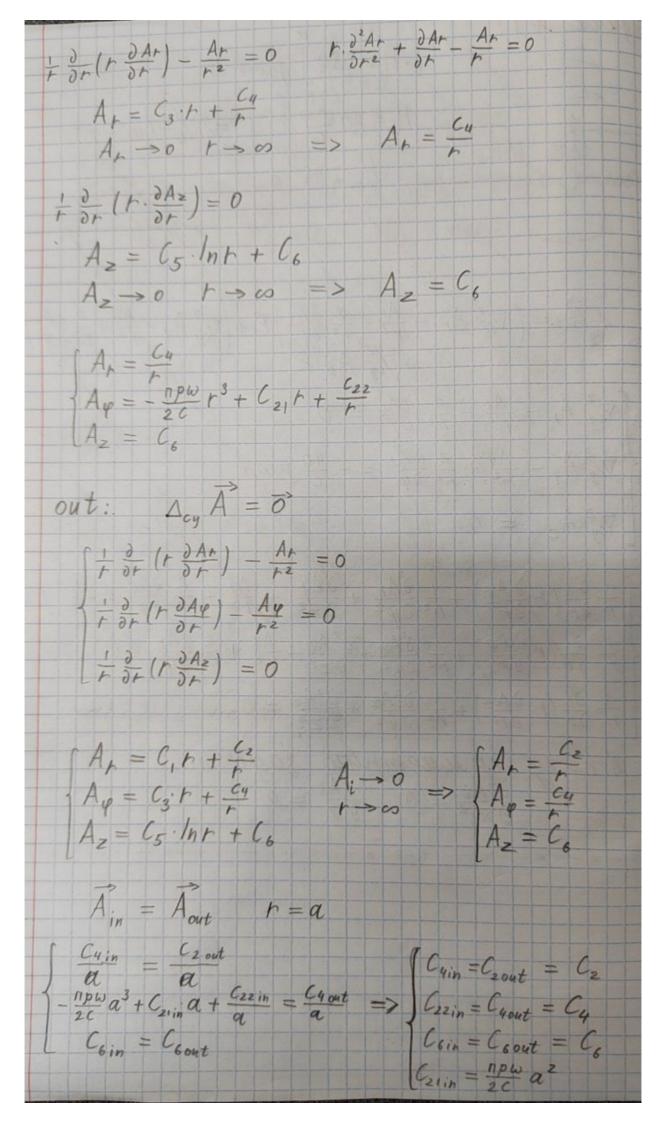


 $\frac{A}{A} = \left(\nabla_{ey}^{2} A_{r} - \frac{Ar}{r^{2}} - \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{r} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{r}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{r}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{r}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{r}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{r}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{r}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{r}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{r}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{r}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} + \frac{2}{r^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2} A_{\varphi} - \frac{A_{\varphi}}{r^{2}} \right) \overrightarrow{\varphi} + \left(\nabla_{ey}^{2}$ $\int \nabla_{cy}^{2} A_{p} - \frac{A_{p}}{p^{2}} - \frac{2}{p^{2}} \frac{\partial A_{\varphi}}{\partial \varphi} = 0$ Vey Ay - Ay + 2 dAr = - 411 pw.r $\nabla_{cy}^2 A_z = 0$ Tor (roap) + to dan + dar - At - 2 dag = 47 pw.r 1 2 (r dAp) + 1 2 Ap + 2 Ap - Ap + 2 dAr = 0 $\frac{1}{h}\frac{\partial}{\partial h}\left(h\frac{\partial Az}{\partial h}\right) + \frac{1}{h^2}\frac{\partial^2 Az}{\partial \phi^2} + \frac{\partial^2 Az}{\partial z^2} = 0$

	or (+ 2 Ag) - Ag = 47 pw. r?	
0.p.	3 (1 0 A4) - A9 = 0	1
	DA4 + 1 22 A4 - A4 = 0	+
	$A_{\varphi}^{\circ} = C_{1} \cdot p + \frac{C_{2}}{p}$	+
7.p.	$A_{\varphi} = C_{1}(r) \cdot r + \frac{C_{2}(r)}{r}$	





$$H_{in} = \nabla_{iy} \times \overrightarrow{A}_{in}$$

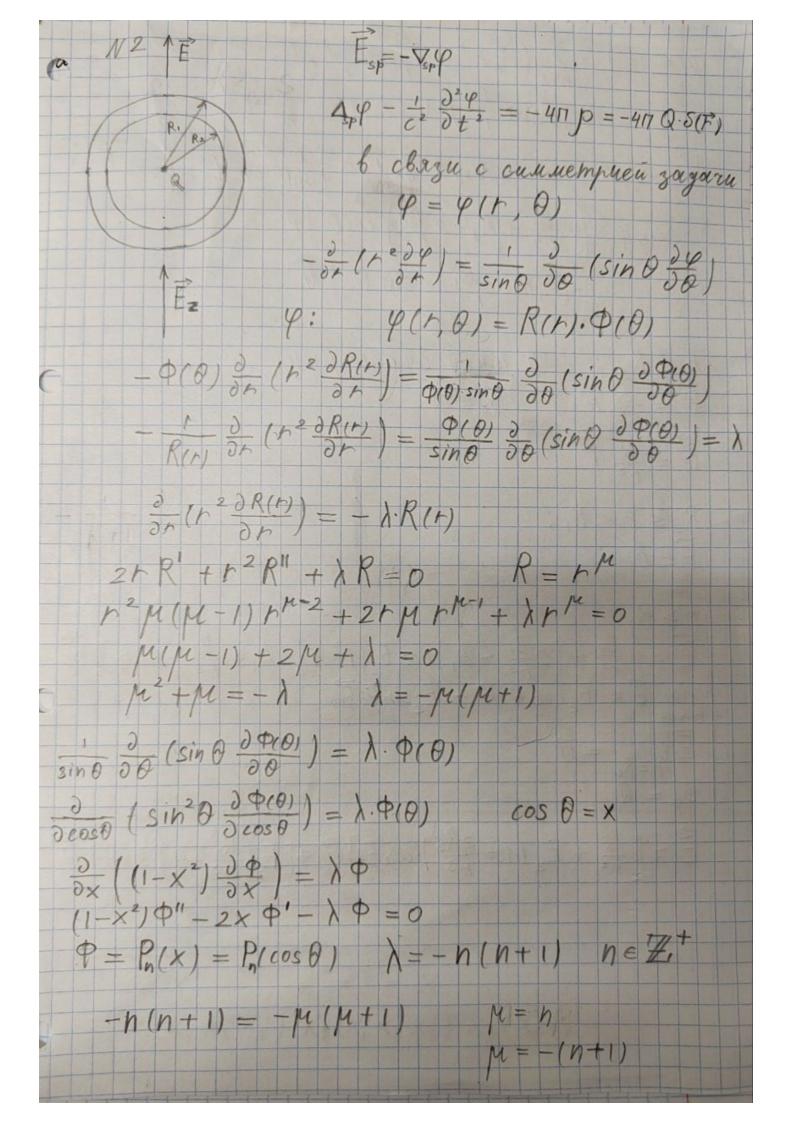
$$H_{inr} = \frac{1}{10} \overrightarrow{A}z - \overrightarrow{\partial}Av = 0$$

$$H_{inr} = \frac{1}{10} \overrightarrow{A}r - \overrightarrow{\partial}Az = 0$$

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$$H_{out} = \frac{1}{10} \overrightarrow{A}r - \overrightarrow{\partial}Az = 0$$



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