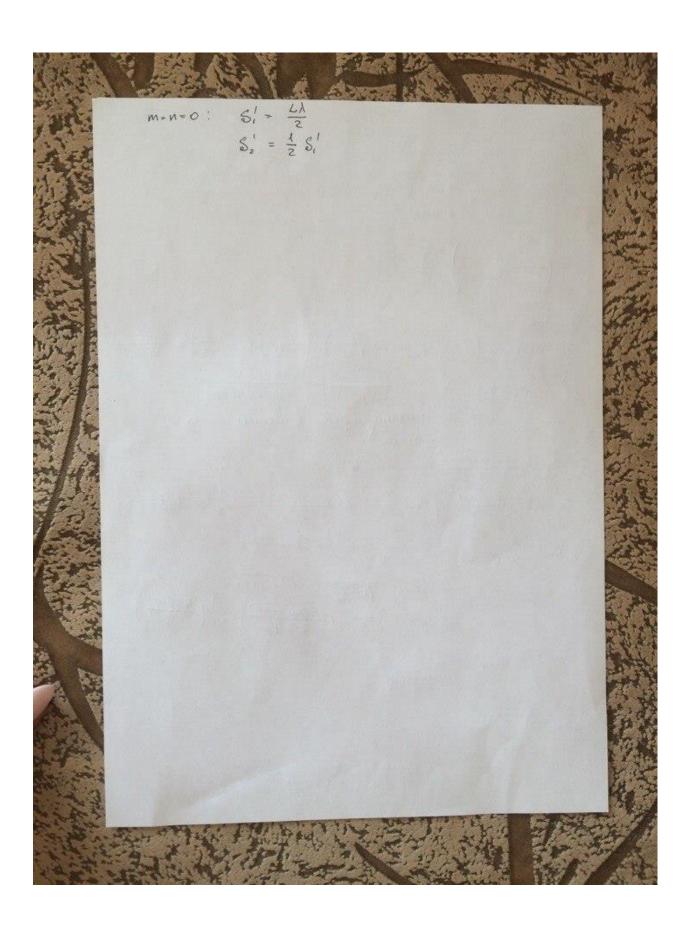
Задача 1

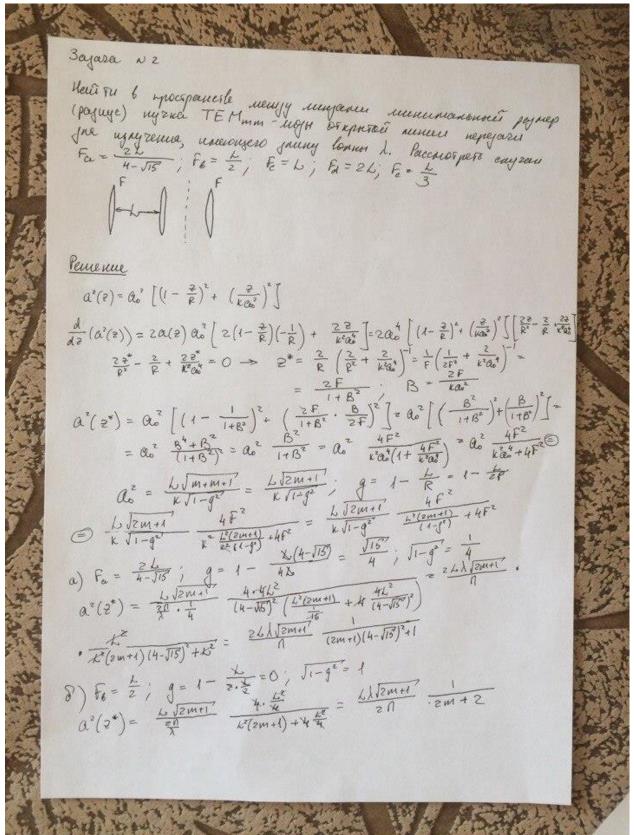
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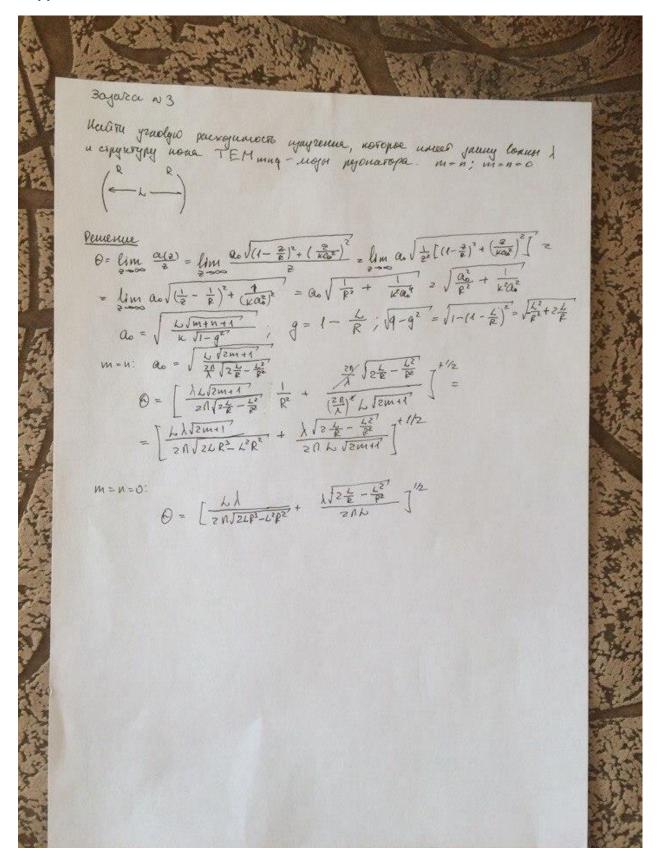
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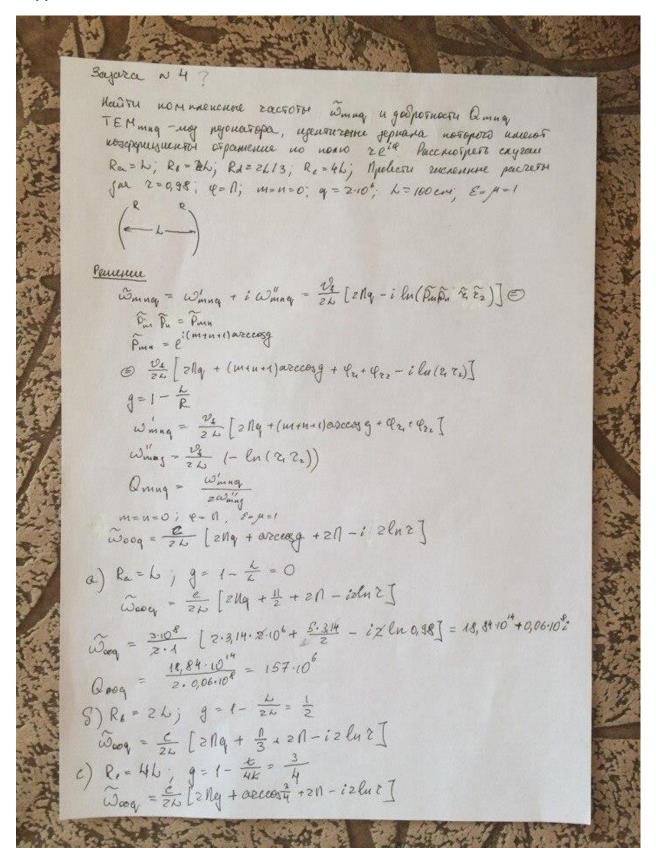


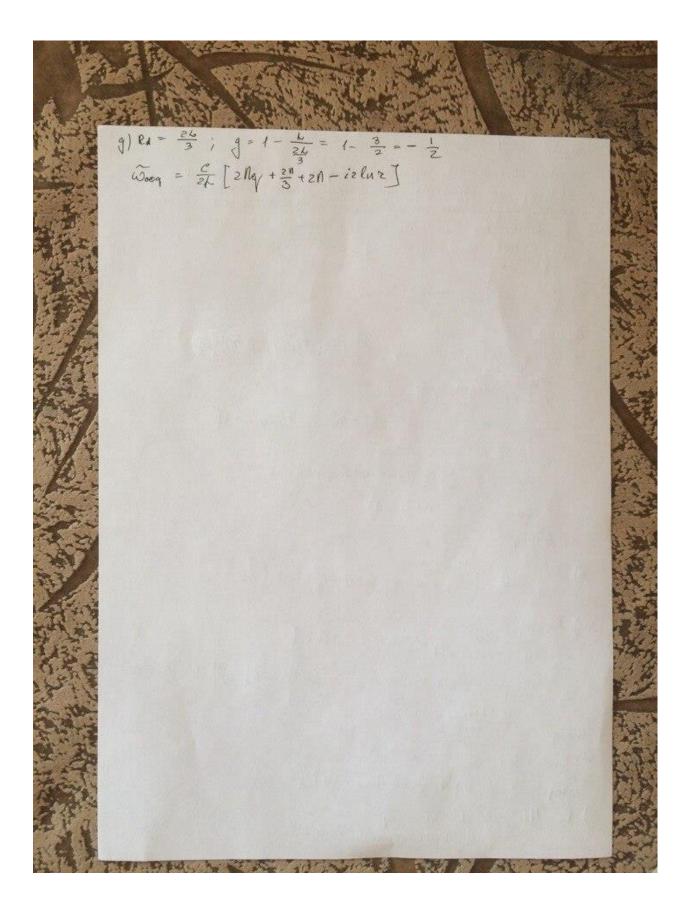
e) $F_c = U$; $g = 1 - \frac{L}{2 \cdot L} = \frac{1}{2}$; $\sqrt{1 - g^2} = \sqrt{1 - \frac{1}{4}} = \frac{\sqrt{3}}{2}$ $\alpha'(z') = \frac{L\sqrt{2m+1}}{20} \frac{\frac{L}{L}}{2} \frac{\frac{L^2(2m+1)}{2}}{\sqrt{2}} + \frac{L}{L} \frac{$ g) $F_{a} = 2L$; $g = 1 - \frac{L}{2 \cdot 2L} = \frac{3}{4}$; $J_{1} - g^{2} = \frac{\sqrt{7}}{4}$ $a^{2}(2^{*}) = \frac{L \sqrt{2m+1}}{\sqrt{2}} \frac{4 \cdot 4k^{2}}{4^{2}} = \frac{2L \sqrt{2m+1}}{\sqrt{7}} \frac{4}{\sqrt{2m+1}}$ e) $f_e = \frac{L}{3}i$ $g = 1 - \frac{L}{2 \cdot \frac{L}{3}} = 1 - \frac{3}{2} = -\frac{1}{2}i$, $\sqrt{1 - g^2} = \frac{\sqrt{3}}{2}$ $e^2(2^*) = \frac{L}{\sqrt{2m+1}} \frac{\sqrt{2m+1}}{2} \frac{\sqrt{4 \cdot L^2}}{2} = \frac{L \sqrt{2m+1}}{\sqrt{3}} = \frac{L \sqrt{2m+1}}{\sqrt{3}} + 2$

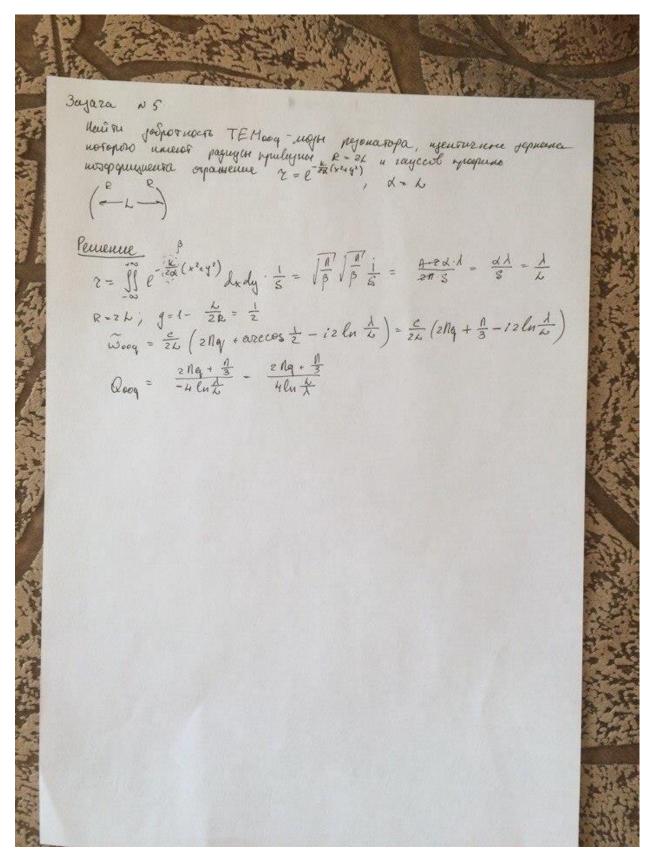
Задача З



Задача 4

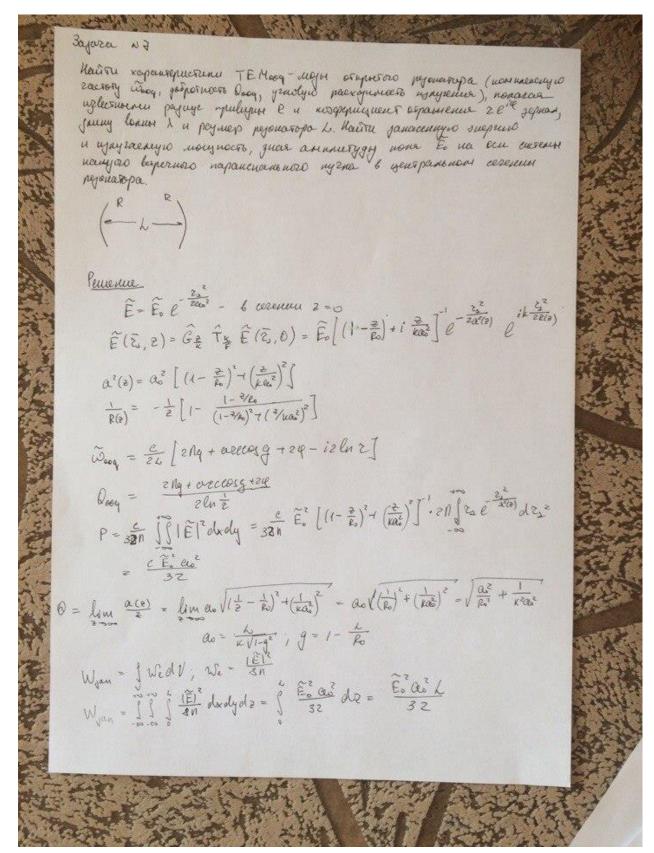


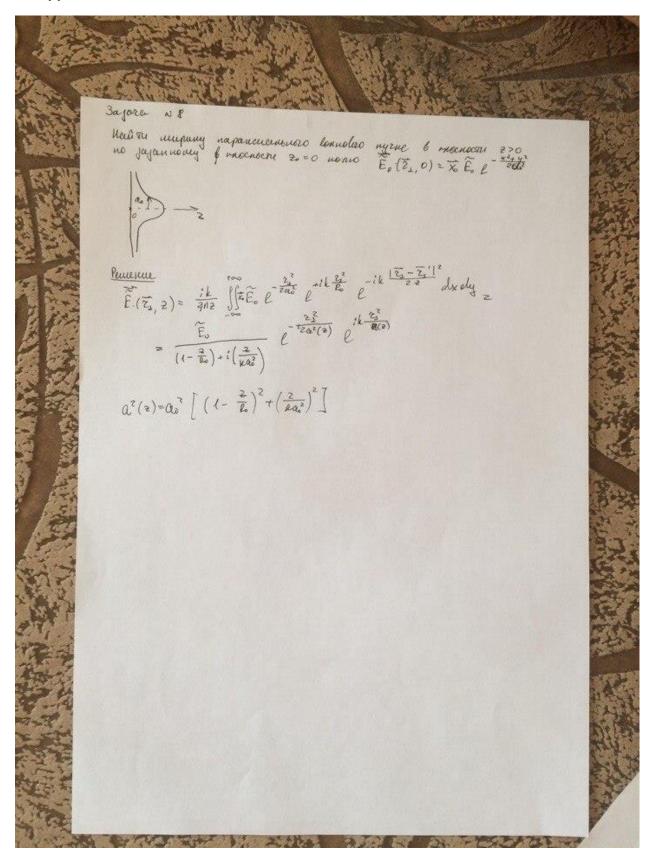




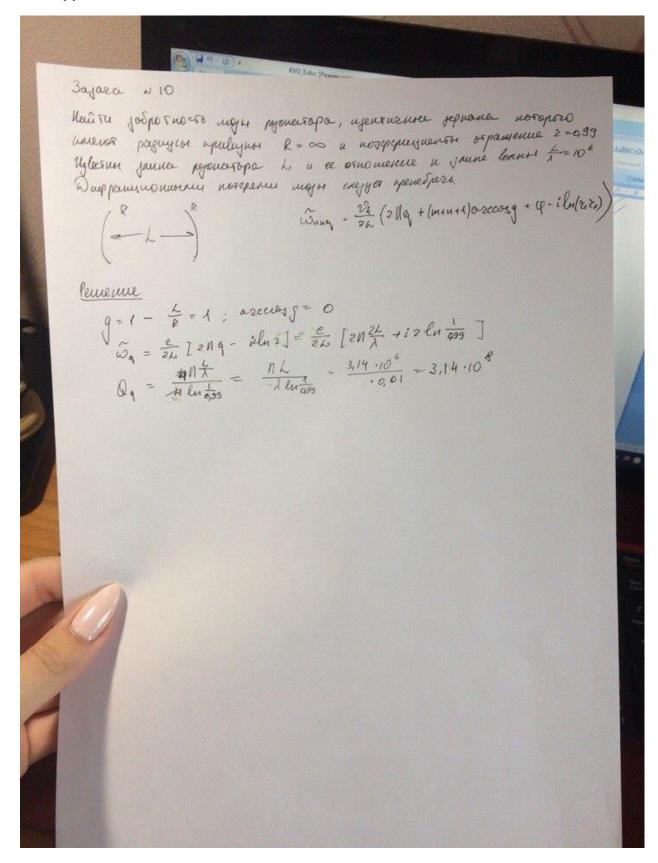
Bajara найчи характеристи основной нозы ТЕНью в очирачной минии передачи найни ширину тугна и усландить се зависимость от прозомност пооргановы на периоде системи, определить сразовую спорым и манисть попалая захимними фонуеное расстоение шизи Е и период енекени в а чакие рину вония в и аминитуру попе Ег на оста мини передоги nyero nylerino: $\tilde{\mathcal{U}}(xy, 200) = \tilde{\mathcal{U}}_0 e^{-\frac{2x^2}{24\pi^2}} e^{-\frac{1}{2}\frac{x^2}{27}} - TEMOO mojer$ $<math>\tilde{\mathcal{U}}(\bar{z}) - \frac{ik}{2nz} \iint \tilde{\mathcal{U}}_0 e^{-\frac{2x^2}{24\pi^2}} e^{-\frac{1}{2}\frac{k[(x-x)^2+(y-y)^2]}{22}} dx'dy' =$ = iki 1 = -12 + 1k = - = = (x2xx22xx) dx Je = = -12 (4242 - 344) /g= = 110 e-1/2 (x2+y2) g = 20 +11/2 - 1/2 (x12-2xx) dx Se 20 +11/2 - 1/2 (y2-294) dy @ $-a^{2} = -\frac{1}{2a^{2}} + ik \frac{1}{2F} - \frac{ik}{2e}; \quad b_{z} = \frac{2ikx}{22}; \quad b_{y} = \frac{2iky}{22}$ $\int e^{-a^{2}x^{2}bx} dx = \sqrt{\frac{a}{a}} e^{-\frac{ik}{2a^{2}}} e^{\frac{2iky}{a}} e^{\frac{ik}{a}} e^{\frac{$ = exp = 222 \frac{i \alpha^2 - i \left(\frac{1}{2} - \frac{i}{4}\right)^2}{\frac{i \alpha^2 \kappa^2 + \frac{i \alpha^2 - i \alpha^2 \frac{1}{2} - \frac{i}{4}\right)^2}{\frac{i \alpha^2 \kappa^2 + \frac{i \alpha^2 - i \alpha^2 \frac{1}{2} - \frac{i}{4}\right)^2}{\frac{i \alpha^2 \kappa^2 + \frac{i \alpha^2 - i \alpha^2 \frac{1}{2} - \frac{i}{4}\right)^2}{\frac{i \alpha^2 \kappa^2 + \frac{i \alpha^2 - i \alpha^2 \frac{1}{2} - \frac{i}{4}\right)^2}{\frac{i \alpha^2 \kappa^2 + \frac{i \alpha^2 - i \alpha^2 - i \alpha^2 \frac{1}{2} - \frac{i}{4}\right)^2}}. $\widetilde{u}(\overline{z}) = \frac{ikle}{2\sqrt{2}} \left(\frac{1}{2a_0^2} + \frac{1k}{2} \left(\frac{1}{2} - \frac{1}{2F} \right) \right)^{-1} e^{-\frac{2a_0^2}{2a_0^2(2)}} e^{ik\frac{2a_0^2}{2R(2)}}$ νρ - w hmn = k - (m+n+1) asecosy , g=1- 2F Vp = w weccos(1- it)

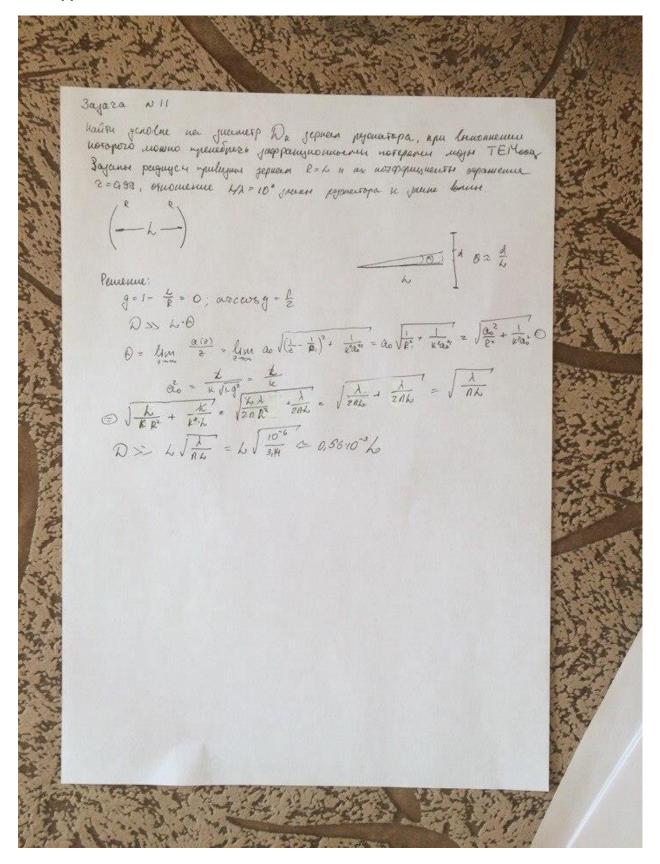
 $\tilde{E} = X_0 \quad \tilde{E}_0 \quad \frac{1}{2} \left[(1 - \frac{2}{c_F}) - i \frac{2}{4a_0} \right]^{-1} e^{-\frac{2c_0^2}{2a_0^2(p)}} e^{+ik\frac{2c_0^2}{2p_0(p)}}$ $\tilde{\Pi} = \frac{c_0^2}{3m} \left[\tilde{E}_0^2 \left[(1 - \frac{2}{c_F})^2 + (\frac{2}{c_0^2})^2 \right]^{-1} e^{-\frac{2c_0^2}{2a_0^2(p)}} \frac{2c_0^2}{2c_0^2(p)} \right]$ $\tilde{P} = \frac{c_0^2}{3m} \left[(1 - \frac{2}{c_0^2})^2 + (\frac{2}{c_0^2})^2 \right]^{-1} e^{-\frac{2c_0^2}{2a_0^2(p)}} \frac{2c_0^2}{a_0^2(p)} dc_0^2$ $= \frac{c_0^2}{6c_0^2} \left[(1 - \frac{2}{c_0^2})^2 + (\frac{2}{c_0^2})^2 \right]^{-1} \frac{1}{2} e^{\frac{2}{c_0^2}(p)} = \frac{c_0^2}{32} \tilde{E}_0^2 a_0^2$ $= \frac{c_0^2}{6c_0^2} \left[(1 - \frac{2}{c_0^2})^2 + (\frac{2}{c_0^2})^2 \right]^{-1} \frac{1}{2} e^{\frac{2}{c_0^2}(p)} = \frac{c_0^2}{32} \tilde{E}_0^2 a_0^2$

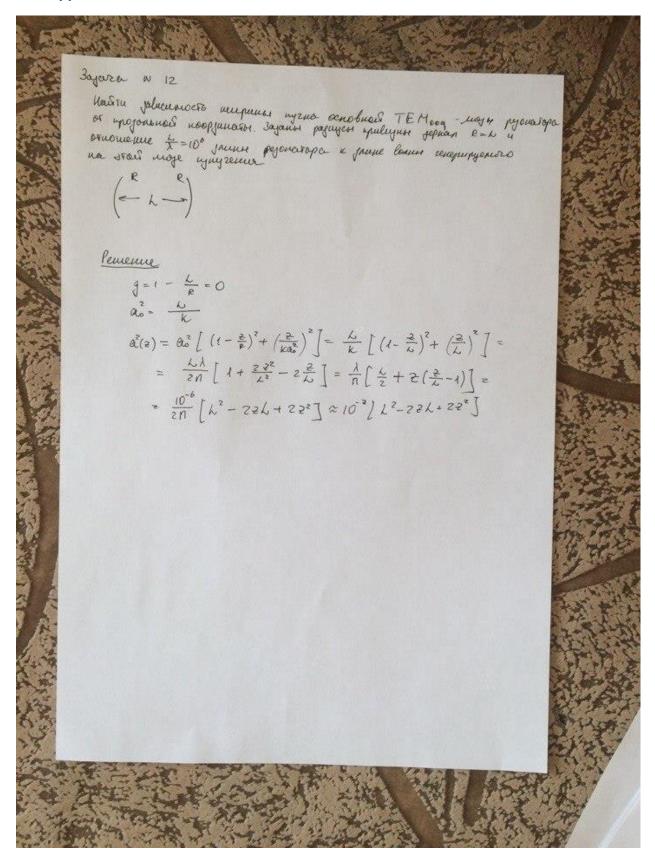


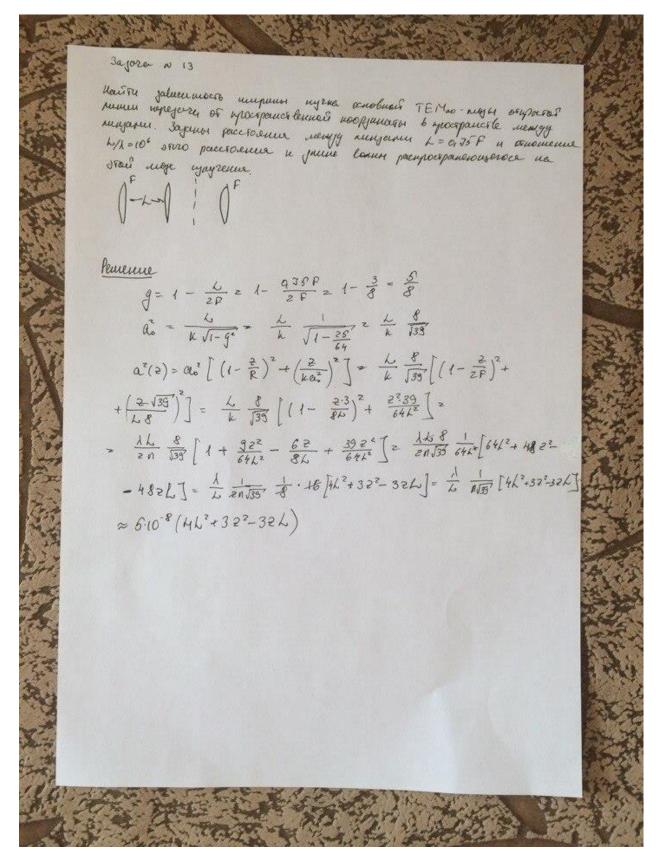


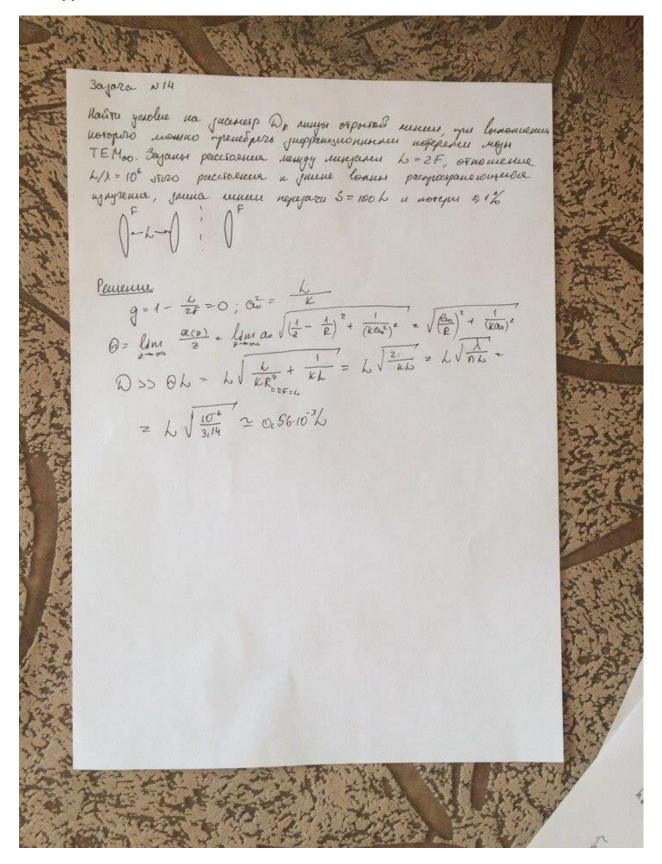
Bajura no Matter womeneryw annusygy none napaneuronous ayrna δ anoencery $\epsilon > 0$ no jajanusouy δ anoencery $\epsilon > 0$ enempy spoespanes δ unit received $\tilde{E}_{\delta}(k_{r},k_{y}) = \tilde{\chi}_{\delta}$. $\tilde{E}_{\delta}(\tilde{E}_{\delta}(k_{r},k_{y}) = \tilde{\chi}_{\delta}$. E. (E, 2) = [E. (T., 2-0) e-i(L++byy) + 12 + by 2 ch dky = Penerne - JI E. e-i(kx+ky) e- = to the (t- =) dhody Jean X+6x dx = III e to Se= in $(3) \widetilde{E}_{0} \frac{1}{\frac{1}{2k^{2}} + \frac{2}{2k}} e^{-\frac{k^{2}}{4(\frac{1}{2k^{2}} - \frac{2}{2k})}} = \widetilde{F}_{0} \frac{2Nk^{2}}{1 - 2k} e^{-\frac{k^{2}}{2(k - 2k)}}$

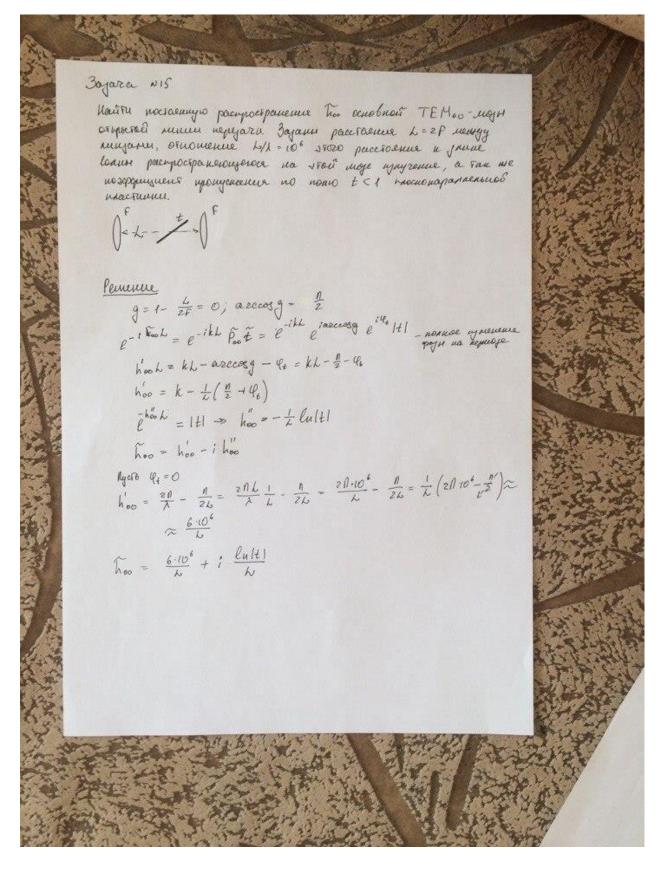


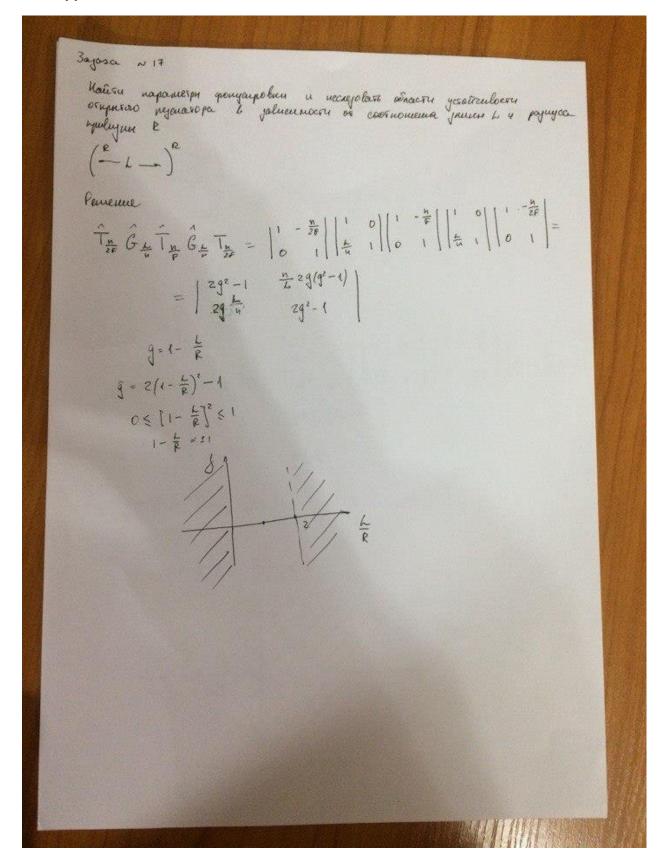


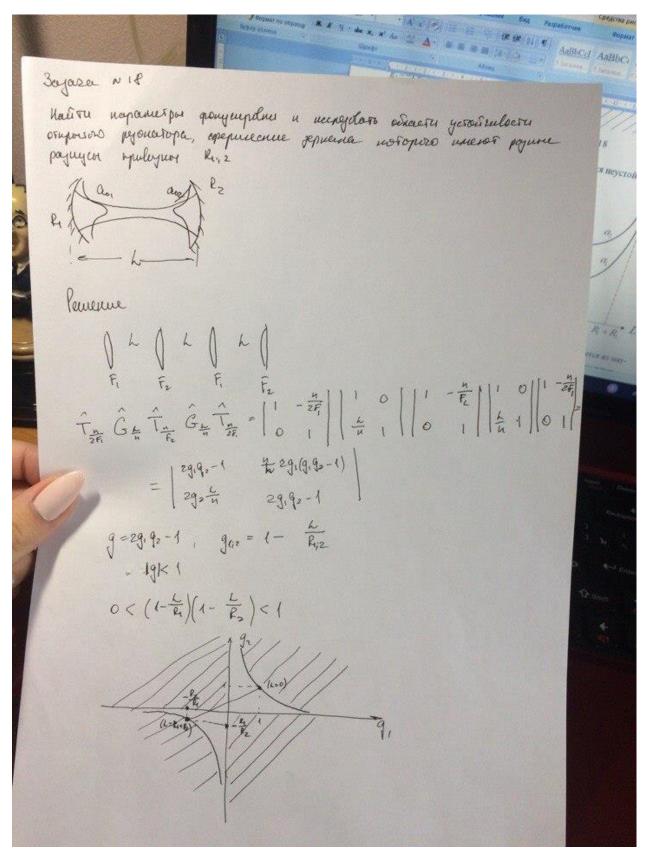


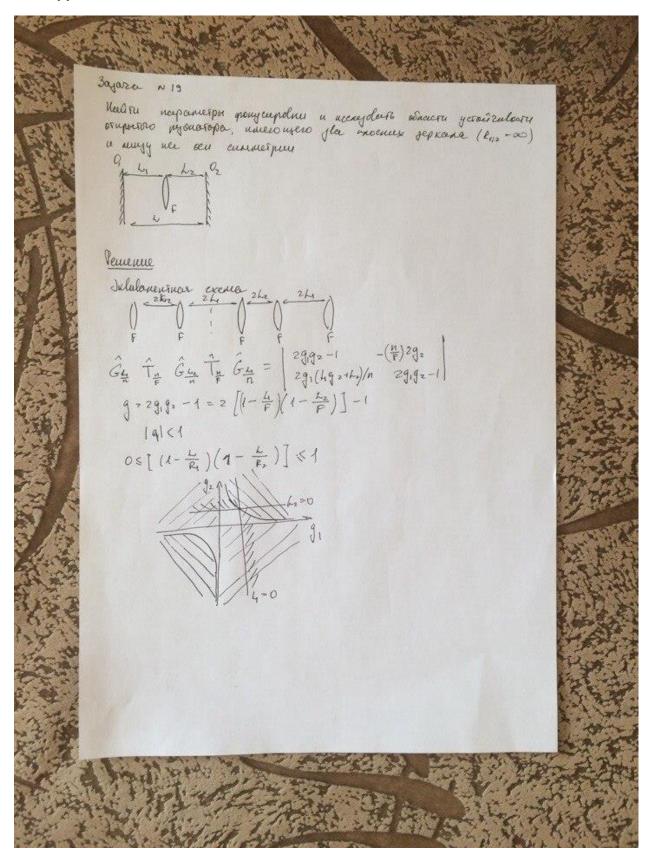












Кайти в ушенимении геомегрической оптини помпленскую гостоту болд Bajara и роброгиост Огод мун ТЕНгод обиролого руспатора с простични Jepuanaru (l=∞), nonareir uzlecturum nozgepunguentu orpanienue rein jegneen, january boarns a popular peronastope. Suale community of the nona És na jepneene é ceremen 200, naison pacopegenenne имовиости запасенией эперации и мощность, умугаемую герез ериштине ачение тощази напуто зернала. (~ h --) Pennenue $q = 1 - \frac{L}{R} = 8;$ $q = 1 - \frac{L}{R} = 1;$ $q = 1 - \frac{L}{R} = 1;$ q = 1Pan = ℓ -i2 kmnq $h = -i2Nq - i\alpha secong(min+1) - i2q$ -i2 kmnq $h = 2Nq + \alpha secong(min+1) + 2q$ -i2 kmnq $h = 2Nq + \alpha secong(min+1) + 2q$ m = u - 0; Kooq = k'ooq - ik'ooq 2k'' h = 2Nq + 2q - k' = h' 2k'' he 2 1 2 2 2 1 2 k'h = lu = 22 $k'' = \frac{l_1 + 2}{2 h}$ w'= Ten b w" = e ln = zh Q = w1 = nq. 2t = ny Leveluze = luze Ê(2)= Ê0[(1- 2-)-1 200] e 200 (1) 200) P= fn (E) (11-3) + (3m2) | 2, e 3/2) dz, 20