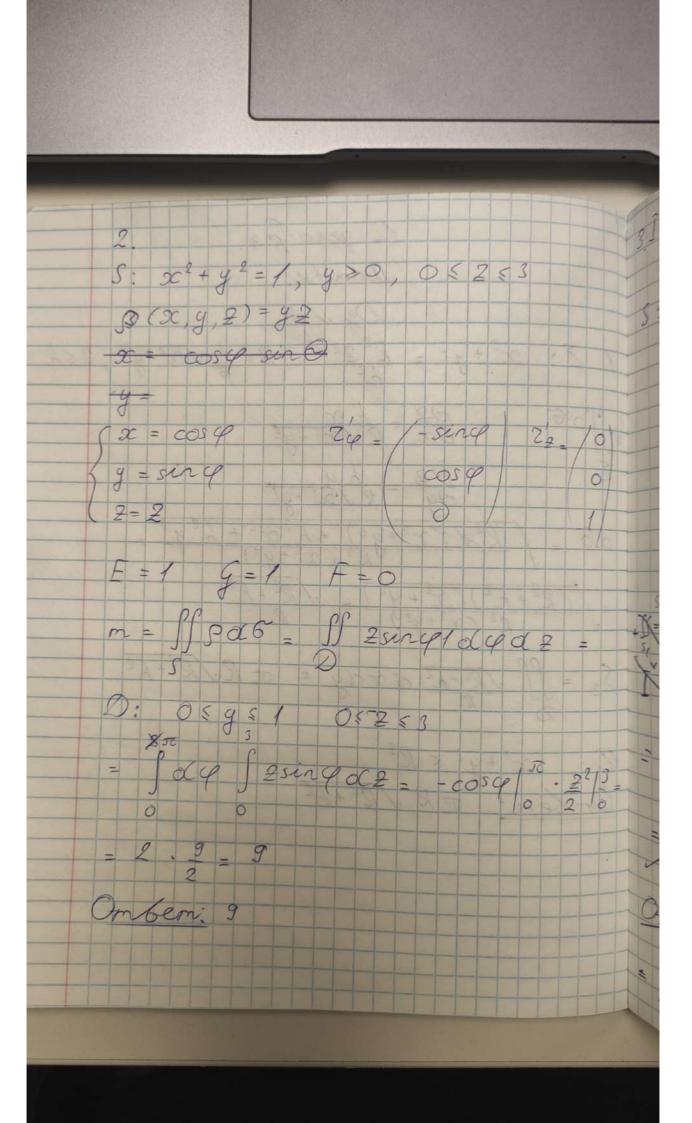
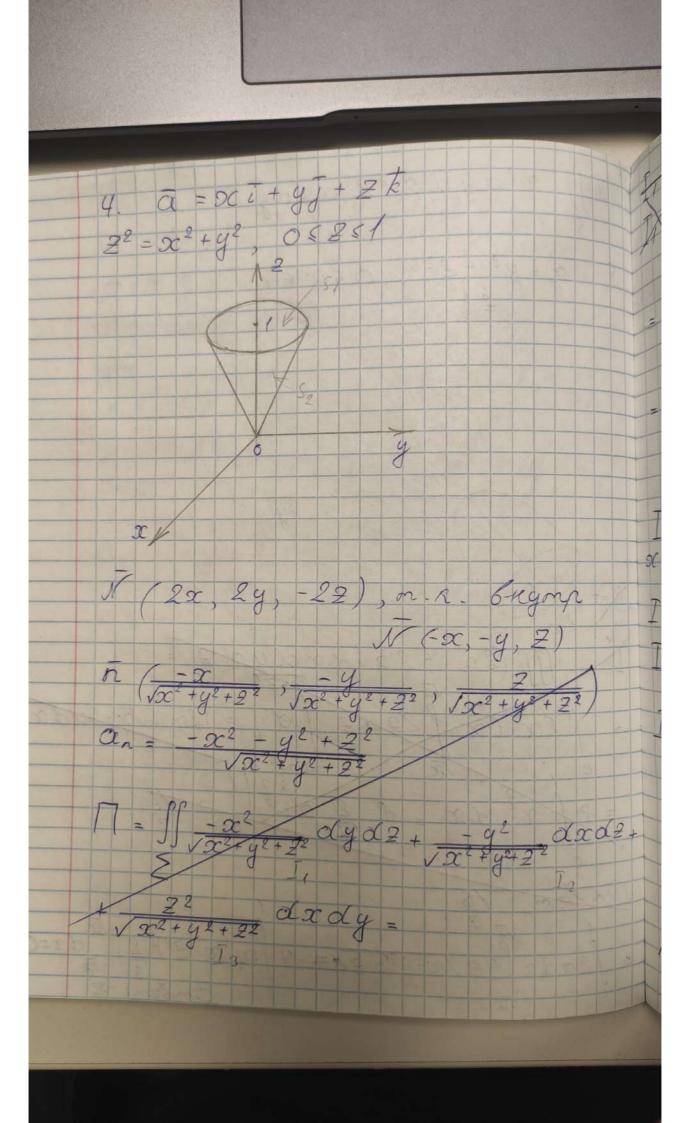
12 geradra llamtk. 1. Σ : $x^2 + y^2 = R^2 2^2$ $Z = h \sqrt{3c^2 + y^2}$, $Z \le h$ $\int_{\overline{z}} \int dG \qquad \frac{\partial z}{\partial x} = h x$ $\frac{\partial 2}{\partial y} = \frac{hy}{R \sqrt{5c^2 + y^2}}$ $d6 = \int \frac{R^2 f(x^2 + y^2) + h^2 x^2 + h^2 y^2}{R^2 (x^2 + y^2)}$ $= /(R^2 + h^2)(x^2 + y^2) = /R^2 + h^2$ $= /(R^2 + h^2)(x^2 + y^2) = R$ $S_{z} = \iint \frac{R^{2} + h^{2}}{R} dx dy = \pi R \sqrt{R^{2} + h^{2}}$ D: $x^2 + y^2 \le R^2$ Ombern: $5CR \sqrt{R^2 + h^2}$



3.]= ff x2 dy d2, +22 dxdy,

Ie = Ie => Ie =0 2>0 2<0



17 = 11 xdyd2 + ydxd2 + 2 dxdy $=-\frac{1}{7}\pi 2^{2} d2 = \frac{\pi 2^{3}}{3} = \frac{\pi}{3}$ In = + S - 122-y2 dy d 2 = I, = 50 2 0 0 0, 122-y2 dy d 2 = I, = 50 I, = - 250 Te = T1 = - 250 1 Toc (any) I3 = II /x2+y2 docdy = fdq f22d2 = S2: 1 = 0 S1: T =- SS docdy = - TC 1 = 1 + 1 = 2 - JE

