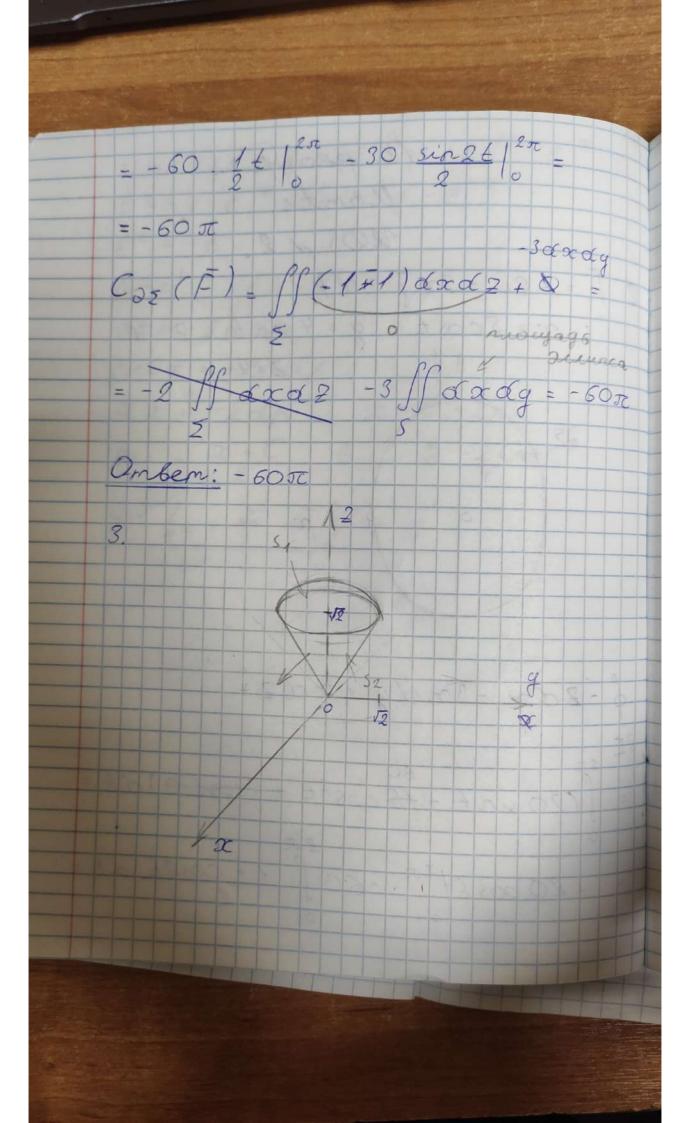
18 geraspea. llante 2003 N 2 2 F = - 2i - 3x j + x k  $f: x = 5\cos t$   $y = 4\sin t$  z = 435  $\frac{\int_{0}^{2} - 2 dx - 3x dy + x d 2}{\int_{0}^{2} (20 \sin t - 45 \cos^{2}t + 5 \cos t \cdot 0) dt} = \frac{2\pi}{2\pi}$   $= -20 \cos t |^{2\pi} - 60 \int_{0}^{2} 1 + \cos t \cdot 0 dt = \frac{2\pi}{2\pi}$ 



[[(F) = ], x2 xyx2, +y2 xxx2, +22 xxxx I, mu x so poben I, mu x « 0 => => I,=0 traiorurso I2 = 0. I3 = SS 22dxdy - SS 22dxy I3, = If 4-x2-y2 dxdy = I32 = II x2 + y2 Is = IS 4-2x2-2g2 dxdy = fdq (4-222) 2d2= = 200 (222 - 24) 152 = 400 11(a) = // (2x + 2y + 22) dx dy dz = =  $\sqrt{\frac{2\pi}{4}}$   $\sqrt{\frac{2\pi}{4}}$ 

