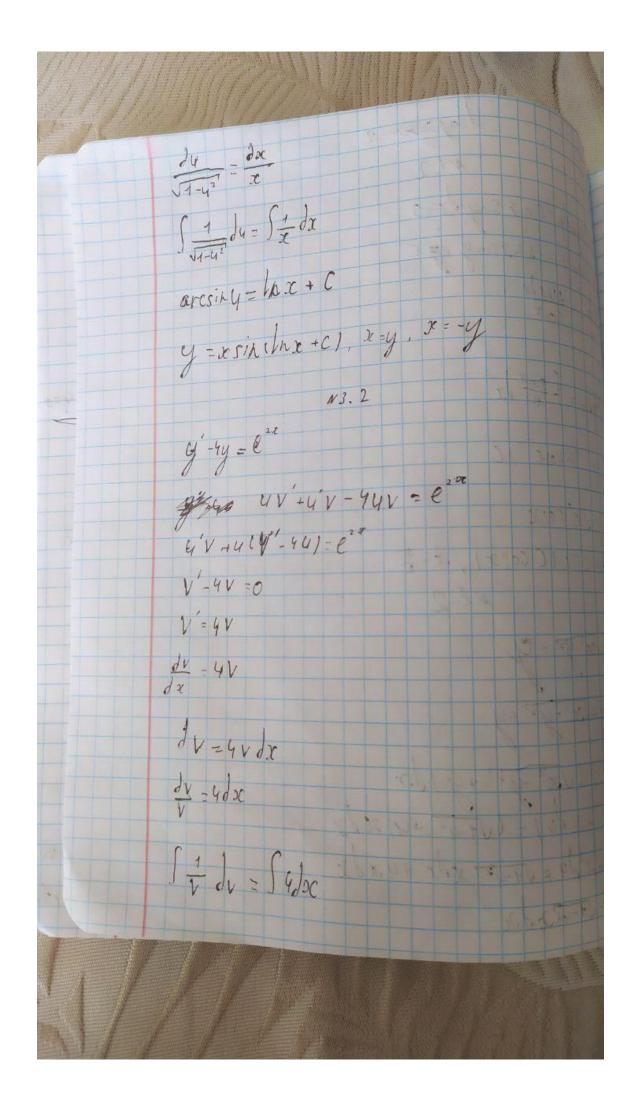
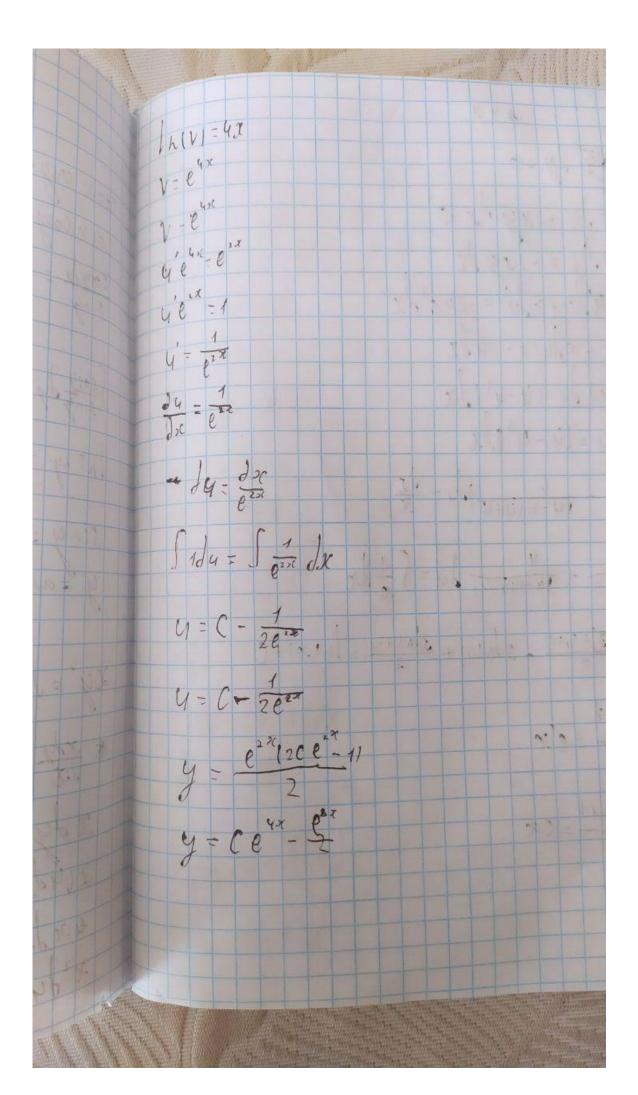
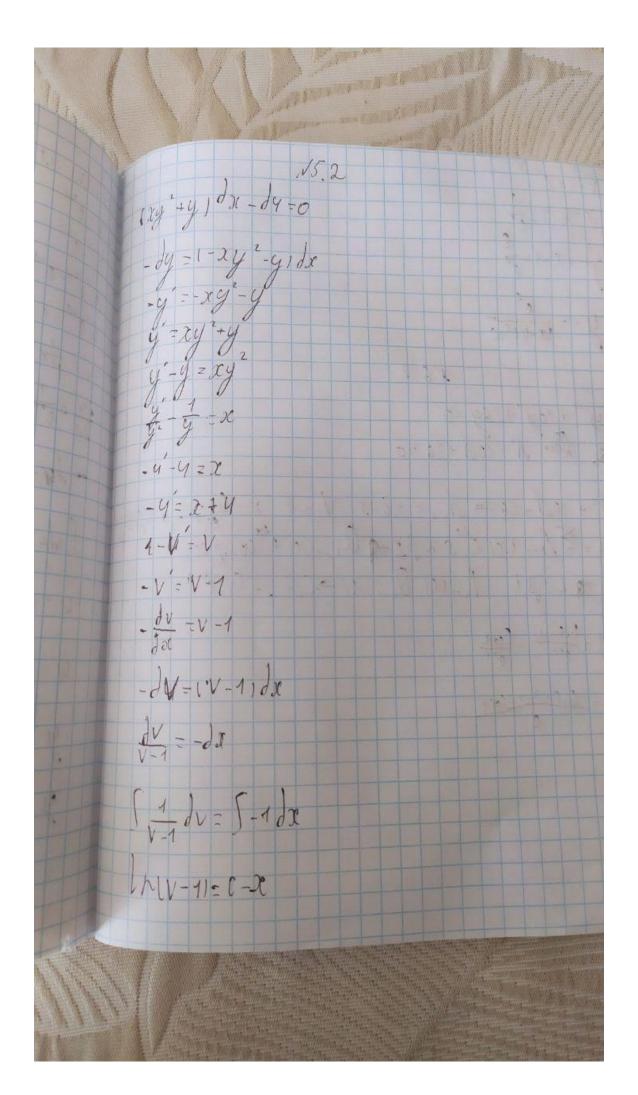
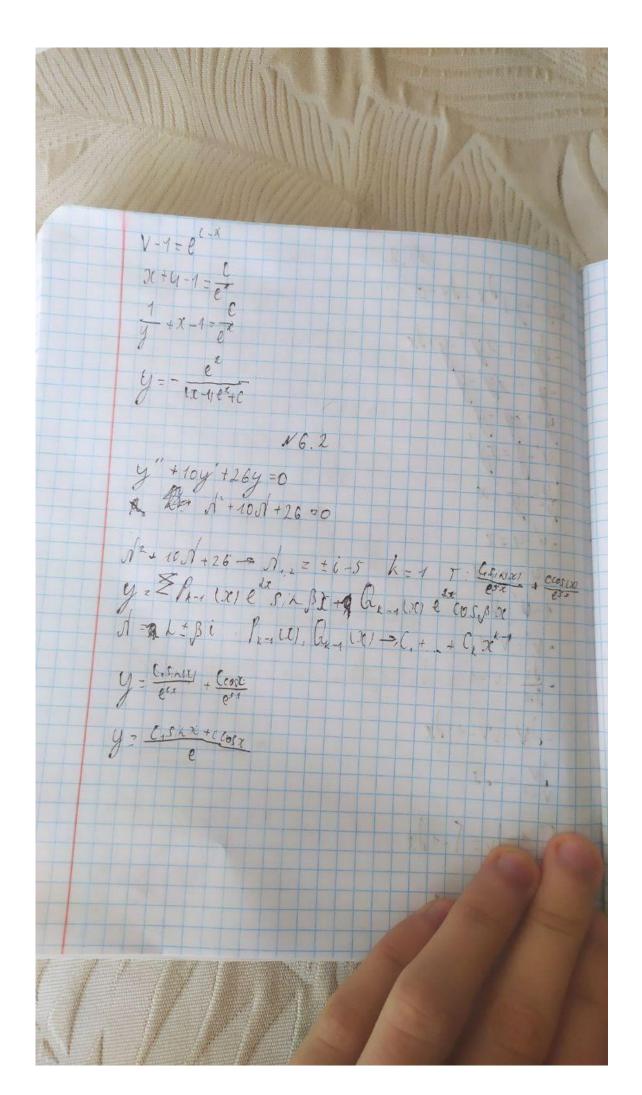
Dapiana 2 cosx cosydy + Sin & siny dx =0 cosx cosy dy = - sin Isiny dy x Scory dy = from dx lhsing = lh cost +C siny = e cosse y = arcsin (C cosx), x = T 24 = Joe2-4= + ty * xdy = 5x2-y2+y $x dy = (\sqrt{3c^2 - y^2} + y) dx$ $2(4d)(+x) d4 = (\sqrt{1-4^2} + 4) 20 dx$ $420 d20 + x^2 d4 = \sqrt{1-4^{21}} x dx + 4x dx$ 262 dy = 57-42 2 d 20





 $\frac{2x dx}{y^{3}} + \frac{xy^{2} 3x^{2}}{y^{3}} dy = 0$ $(y^{2} - 3x^{2}) dy + 2xy dx = 0$ $(y^{2} - 3x^{2}) dy = -2xy dx$ $(y^{2} - 3x^{2}) (y dx + x dy) = -24x^{2} dx$ (4-3) (4dx + xda) = - 24 dx (42x-3x) du=(4-43) dx 14-31xd4=(4-45)dx $(\frac{3}{(9-1)4(9+1)} - \frac{4}{(4-1)(4+1)})d4 = \frac{d1}{20}$ $\int \frac{3}{4u-1)44u+11} - \frac{4}{4u-1)(u+1)} du = \int \frac{1}{x} dx$ - ln14-11 + 3/n (4+1) - 3/n (4) + 3/n (4-1) = ln(x)+0 (4-1) (4+1) = ex $\frac{x^{3}(\frac{1}{x}-1)(\frac{1}{x}+1)}{y^{3}}=cx$ $\frac{x}{y}-\frac{x^{3}}{y^{3}}=cx$





y" + 8y' + 15 y = 30x ex (for (x) cos 8x + Qn (WSin 8x) y=xe2x (Ralsy cossx+ Taxisinsx)
2+si=0->s=0 y = 220 - 16 y = C + C1 + 2x - 16