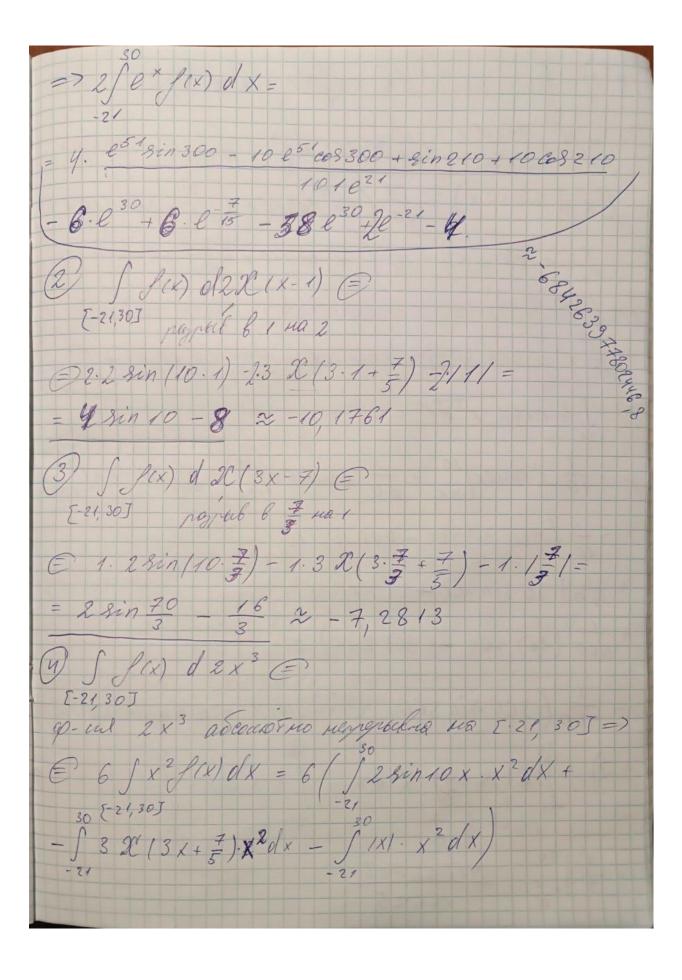
Bernewars unregion desera- Amerbeca ff(x) of F(x) K = 7, l=10, Carwant 7 Ea, 6]= E-21, 30J f(x) = 2 sin 10x - 3 20 (3x + 7) - 1x1 F(x) = 2ex + 2 2C(x-1) + 2C(3x-7) + 2x3 Респония Вошень запал св-вым полимия - арди тивностью по шере, разовем интернам под едистру чеб вереге инедалов, попервий вышешь or eccord. (1) Solx dex @ 90-1119 20x-abcounting reportera na E-21, 8030 Elsexf(x) dx = 2/ Jariniox. exdx+ -5 3 x (3x+ =) . e dx - 5 1x1. e x dx) 15 1.1) \into x. e x dx = \into x de x = = Rincox. e* - Je* d sincox = gincox. e - - - of e * es cox d x =

= 8in 10 x . ex - 10 co \$ 10 x . ex + 10 / ex d co \$ 20 x = = 8in cox. ex- 1000 10x.ex - 100 Sexin coxdx => 101 | exsin 10x dx = sin 10x ex - 1000810x ex => Jexsin10x dx = ex sin10x - 10e 20810x 130 = e 51 3in 300 - 10 e 51 co 8 300 + 8in 210 + 400 cos 210 = ex 30 = e30 = e1= 1.3) JIXI exdx = Jx.exdx + Jxexdx = $\int x e^{x} dx = \int x de^{x} = x e^{x} - \int e^{x} dx = x e^{x} - e^{x} = e^{x}(x-i)$ = - e x (x-1) | 0 + e x (x-1) | 30 = = - (1.(-1) - 8-21 (-22)) + 29830 - 1.(-1) = $= -(-1 + e^{-21}) + 29e^{30} + 1 = 29e^{30} - e^{-21} + 2$



4.1) | sin 10 x x 2 dx = frin - 1x 2 d cos 10 x = = - x2 cos10x + 1 (os lox dx2 = 1 (-x2 cos 10x+ +25x d 8in10x) = 10 (-x2co810x + 2 (x3in10x + - Szin (0x 1(x)) = 10 (-x 20) 10 x + 2 (x 3in 10x+ + 1 cos (0x)) = = -10 x2 cos 10x + 2 x8in cox + 2 cos 10x + C > J 8in10x x dx $= -\frac{1}{10} \times \frac{2 \cos 10 \times |30|}{2 \cos 10 \times |30|} + \frac{1}{50} \times \frac{1}{500} \cos 10 \times |30|}{30} + \frac{1}{500} \cos 10 \times |30|}$ = - 1 (200 00) 300 - 441 00) 210) + 10 (30 8in 300 + 218in 2 lo) + 500 (cos 300 + cos 210) = = = 00 (300 9in 300 - 4493968300 - 210 8in 210 + 2209968200) (4.2) $\int_{-3/2}^{3} \chi(3x+7) \cdot \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} 0 \cdot \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 dx = \int_{-3/2}^{3/2} \chi^2 dx + \int_{-3/2}^{3/2} \chi^2 d$ -21 regimb 6 - 7 $=\frac{x^{3}}{3}\Big|_{-\frac{7}{2}}^{30}=\frac{91195343}{10125}$

4.3) $\int |X| \cdot x^2 dx = - \int x^3 dx + \int x^3 dx =$ $= -\frac{1}{4} \begin{vmatrix} 0 & \frac{4}{30} \\ \frac{1}{4} \end{vmatrix} = + \frac{21}{4} \begin{vmatrix} \frac{30}{4} \\ \frac{1}{4} \end{vmatrix} = \frac{1004481}{4}$ -> 6 /x2/(x) dx = = -12 (300 gin 300 - 4 4 9 9 9 (68300 - 210 8in 210 + 22049 (6826) -18. 911 25 343 - 6. 100 4481 10125 4 2 -1660175,5282 Пании соргания, J(x) d F(x) 2 -684263977802446,8 -10,1761 -7,2813 -1669175,5282 € ≈-684263979471639,6