Tipakruka. 07.02.2023 - Melphoo Spagnas d-your: df(x) = f'(x) dx f(x) = x3 => f(x) = 3x2  $x^2 = \frac{F'(x)}{3} = \left(\frac{F(x)}{3}\right)' = \text{nelphotopayan} F(x)$  f(x) = F(x)o Περβοδοραγιατί φ-ετί ταικα » φ-», προιχθοσια» κοτοροτί = μεχοσιοτί φ-μικ ~ Любая непр. на промежутие ф-я имеет на нём первообразкую  $0 \int f(x) dx = F(x) + c$   $\begin{cases} \mathcal{E}_{x} : f(x) = x^{6} \\ \int x^{5} dx = \frac{x}{6} + c \end{cases}$ neploe 70 δη. znavenue: xn → n+1, η +-1 a 480 ecau n=-1?  $f(v) = x' - \frac{1}{x}$ Sx-1 dx = ln(x) + c Tadrucka: Ssind\* = - cosx +C Saxdx = ax +c Scosx dx = sinx +c So dx = c S cosix dx = tgx +C 5 2 dx = 2x + C Sazix darctax + C Sivix dx > - c +g +c 5 1+x2 = auctgx + c Sexdx = extc

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$$\int (18f(x) + 18g(x)) dx = d + f(x) dx + 13 \int g(x) dx = d + f(x) dx + 13 \int g(x) dx = d + f(x) dx + 13 \int g(x) dx = d + f(x) dx + 13 \int g(x) dx = d + f(x) dx = d +$$

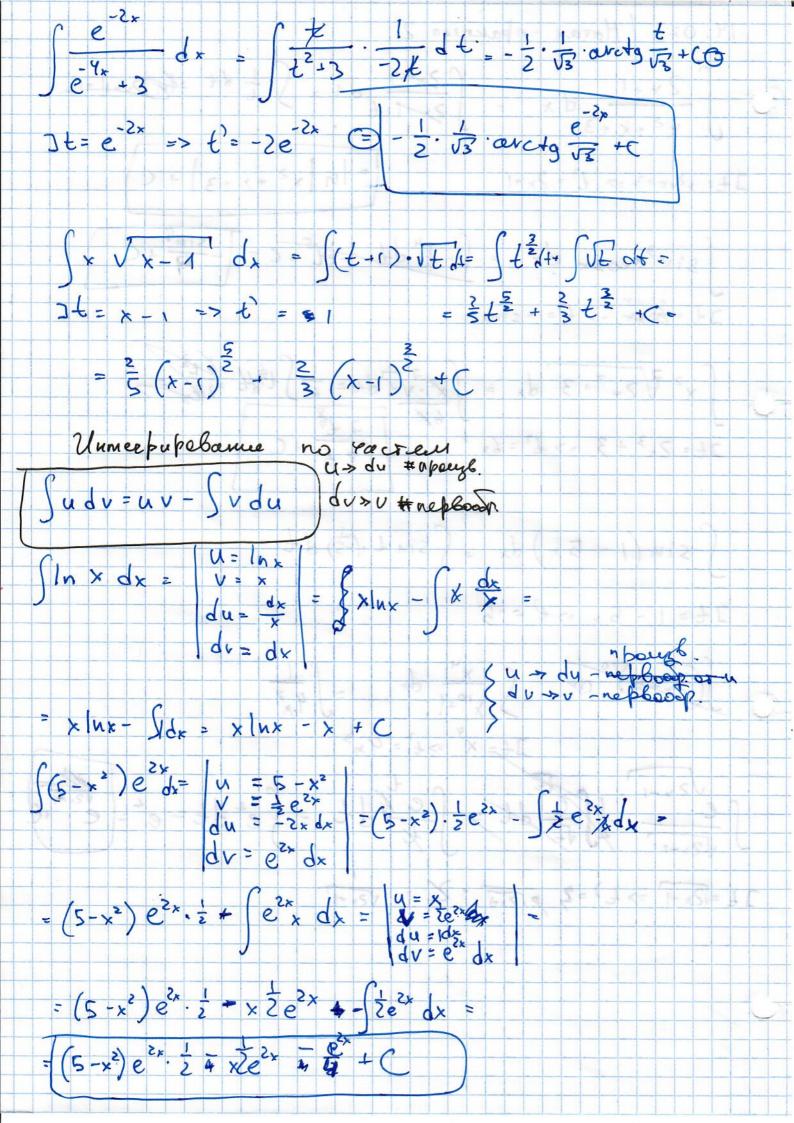
Unrespen exexual d-year:

$$\int S_{1M} (5x+4) dx = \int S_{2M} y dy = y dy =$$

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$$\int \frac{2 \times 11}{x^2 + x + 3} dx = \int \frac{2 \times 11}{2 \times 11} dt = \int \frac{1}{4} dt = \frac{1}{4 \times 12 \times 11} dt$$

It:  $x^2 \times x^2 \times$ 



$$\int (x^{2} + 2x) \cos 2x \, dx = \begin{cases} u = x^{2} + 2x \\ v = x^{2} \sin 2x \\ dv = \cos 2x + dv \end{cases}$$

$$= (x^{2} + 2x) \sin 2x + - \int \frac{1}{x^{2}} \sin 2x (2x + 1) \, dx =$$

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$$= (x^{2} + 2x) \sin$$