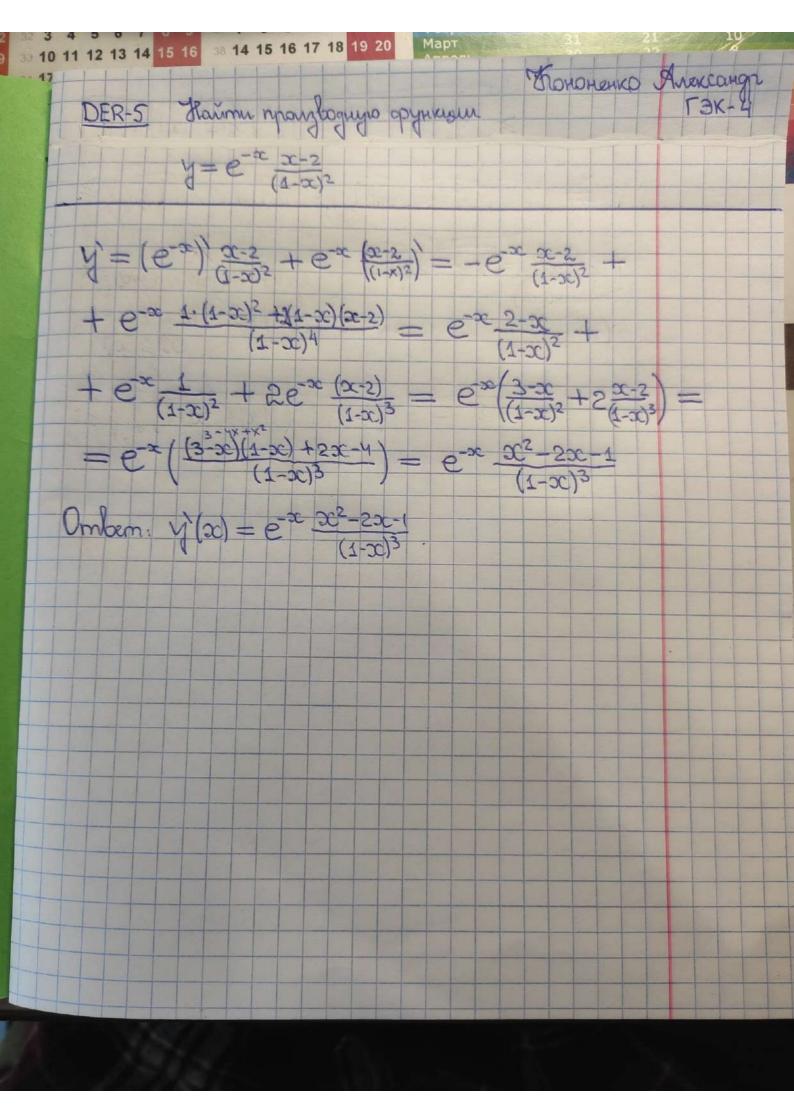
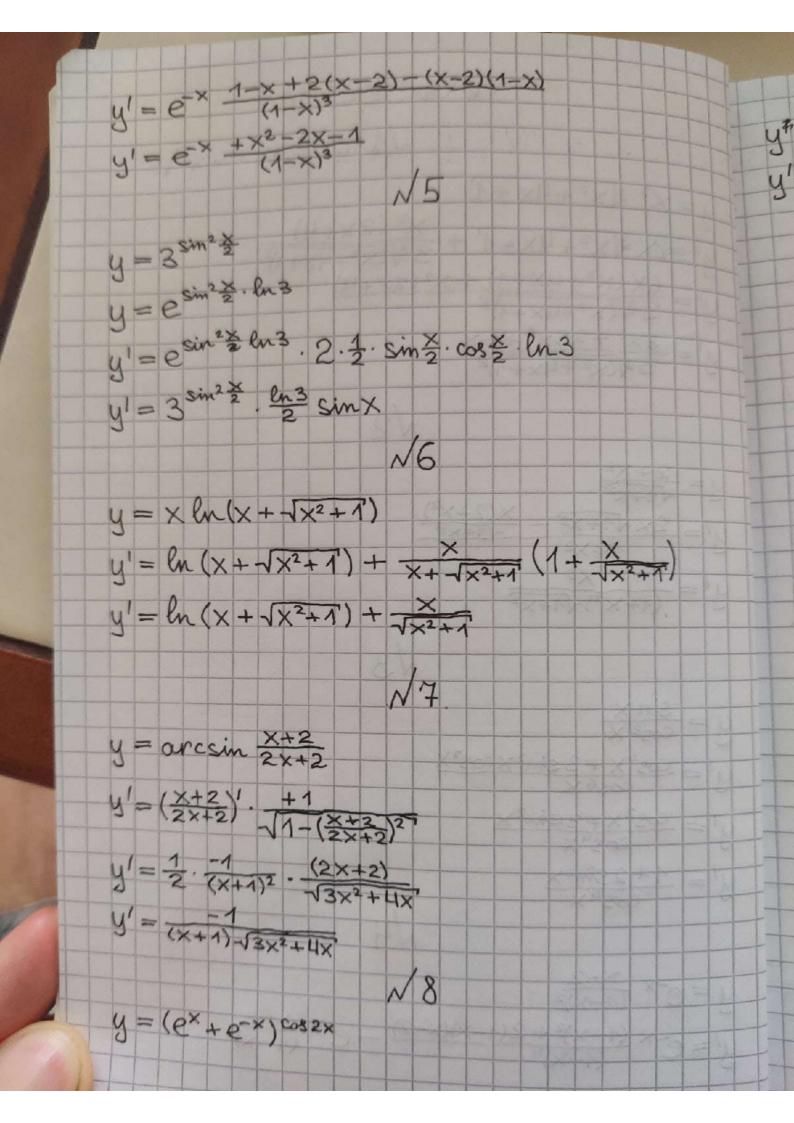
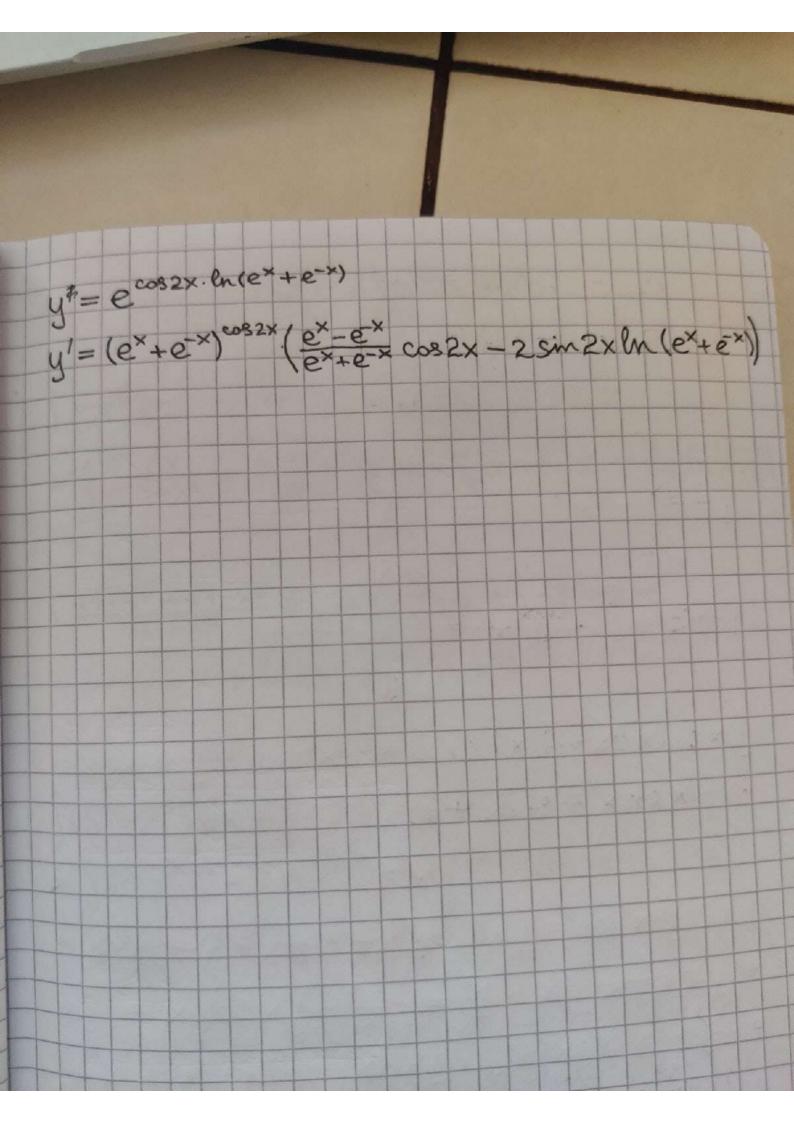
DER-13. Paimu npourbognyro pyrenyrus y= Cn+gx + 2 chglx T3K3 Bopoolee Cramicras LONGOUTHOBUT y'= (ln +gx)+ = (dg 2x) = + = (sn2x) = + = 611 royma 45mx cogx - 3 28m (2x) - 1 Sm2 2x Omber. 2 sm (2x) -1 4 8m x cosx - 1 4 Sn x cos x Sn2 (2x)



TIPON3BOQHA9

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Oy= x2. 3/X2+4x+1 $A_{1} = \left(\frac{(x-x)_{1}}{x^{2}} + \frac{(x-x)_{1}(1-x)_{2}}{(x-x)_{1}(1-x)_{3}} - (x-x)_{1}(1-x)_{1} \right) = -6 \cdot \frac{(1-x)_{2}}{x^{2}} + 6 \cdot \frac{(1-x)_{4}}{x^{2}} - \frac{(1-x)_{4}}{x^{2}} + \frac{(1-x)_{4}}{x^{2}}$ y=2x-2/x+4x+1+x2. \\ \frac{1}{3}. (x2+4x+1)^2. (2x+4) = = 2x2(x24x+1) + \frac{3}{2}x2(x+2)\frac{1}{2}(x2+4x+1)^2 = $-\frac{2x\left(x^{2}+4x+i\right)+\frac{2}{3}x^{2}\left(x+2\right)}{\sqrt[3]{\left(x^{2}+4x+i\right)^{2}}}=\frac{2x\left(x^{2}+4x+i+\frac{x^{2}}{3}+\frac{2x^{2}}{3}\right)}{\sqrt[3]{\left(x^{2}+4x+i\right)^{2}}}=$ $= -e^{-x} \cdot \frac{x - \lambda}{(x - \lambda)^{2}} + e^{-x} \cdot \frac{(1 - x)^{2} + 2(x - \lambda)^{2}}{(1 - x)^{2}} = e^{-x} \cdot \frac{(1 - x)^{2} + 2(x - \lambda)(1 - x)}{(1 - x)^{2}} = e^{-x} \cdot \frac{(1 - x)^{2}}{(1 - x)^{2}} = e^{-x} \cdot \frac{(1 - x)^{2}}{($ $= e^{-x} \frac{1}{(1-x)^3} = e^{-x} \cdot \frac{x^2 - 2x - 1}{(1-x)^3}$ $= \frac{\frac{1}{3} \times (4 \times^2 + 14 \times + 3)}{\sqrt[3]{(\times +4 \times +1)^2}}$ (1-x)3 Mtgx=cos2x

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(elgy=-sn2x) /wolfram: loge [.] 2 y= log cosx+xsinx Sinx-xcosx (-smx+smx+xcox)(smx-xcox)-(cox+xsmx)(cox-coxx+xsmx) = y= tgx cox + 2 2 (-sm/x) = (-smx-xcoxx)2 $=\frac{1}{\ln\lambda}\frac{x\cos x(\sin x-x\cos x)-x\sin x(\cos x+x\sin x)}{\sin\lambda(\cos x+x\sin x)}=\frac{x^2\cos^2 x-x^2\sin^2 x}{\sin\lambda(\cos x+x\sin x)(\sin x-x\cos x)}=\frac{\cos x}{\sin\lambda(\cos x+x\sin x)}\frac{1}{\sin\lambda(\cos x+x\sin x)}=\frac{\cos x}{\sin\lambda(\cos x+x\sin x)}\frac{1}{\sin\lambda(\cos x+x\sin x)}$ [sharper = esch. sech - csc (2x) $= \frac{-x^{2}}{\ln \lambda} \frac{(\cos x + \sin x)(\sin x - x \cos x)}{(\cos x + x \sin x)(\sin x - x \cos x)} = \frac{-x^{2}}{\ln \lambda} \frac{(\cos x + x \sin x)(\sin x - x \cos x)}{(\cos x + x \sin x)(\sin x - x \cos x)}$ coop seely-coopy)= 5/14 tost 5/1/(64) $y' = \frac{2x\sqrt{1+x^2} - (2+x^2)}{2} \frac{1}{2} \cdot (1+x^2)^{\frac{1}{2}} \cdot 2x = \frac{2x\sqrt{1+x^2} - \frac{2+x^2}{\sqrt{1+x^2}} \times }{(1+x^2)} = \frac{2x(1+x^2) - (2+x^2) \times }{\sqrt{1+x^2} \cdot (1+x^2)} = \frac{2x(1+x$ 3 y= 2+x2 $\frac{2x + 2x^{3} - x^{2} - x^{3}}{\sqrt{1 + x^{2}} \left(1 + x^{2}\right)} = \frac{x^{3}}{\left(1 + x^{2}\right)^{3}}$ = $arccosx - \frac{x}{\sqrt{1-x^2}} + \frac{x}{\sqrt{1-x^2}} = arccosx$

(et)

Dy=arctgx+ garctgx3 $||(\operatorname{arctg} x)| = \frac{1}{1+xa}$ 8/= 602x - CO20x - 24x - 3(02x - (-24xx)) = 602x + 324x = 11324x $= \frac{1}{1+x^2} + \frac{x^2}{1+x^6} = \frac{1+x^6+x^2+x^4}{(1+x^2)(1+x^6)} = \frac{(1+x^2)+x^3(x^2+1)}{(1+x^2)(1+x^6)} = \frac{1+x^4}{1+x^6}$ $y = e^{2x} (3\cos 3x - 2\sin 3x)$ $y = 2e^{2x} (3\cos 3x - 2\sin 3x) + e^{2x} (-9\sin 3x - 6\cos 5x) = e^{2x}$ $3_1 = \frac{1}{1 - (3x+y)_3} \frac{(3x+y)_4}{(3x+y)_4} \frac{(3x+y)_5}{(3x+y)_5} \frac{(3x+y)_5}{(3x+y)_5} = \frac{(3x+y)_5}{3x+y-3x-4} = \frac{(3x+y)_5}{(3x+y)_5} = \frac{(3x+$ (13). y= arcsin x+2 = e 2x (GODSX-45113x-95113x-60053x)= = - 1302x SM3x 9 y=35m2 2 y=35m2 ln y=35h12 ln3 25m2-cos2-1 = ln3-35h12 shx = $(4+x)^{\frac{1}{2}} \cdot \frac{x^{\frac{1}{2}}}{2} \cdot \left[\frac{x+x}{x} - cn(1+x)\right] = \frac{x^{\frac{1}{2}}}{(1+x)^{\frac{1}{2}-1}} \left(x - (+x)cn(1+x)\right)$ @ y=xlulx+\x+1) y= lu(x+1x+1)+x. 1 (1+ 21x+1 - 2x)= = lu(x+1x41) + 2x 1x41 1x41 == = $lulx+vx^{2}+1$ + $\frac{3c}{vx^{2}+1}$ // Marcelgx) = $-\frac{1}{1+x^{2}}$ $y' = \ln \lambda \cdot \left(-\frac{1}{1+(x^{2}+1)}\right) \frac{1}{2\sqrt{x^{2}+1}} \cdot 2x = -\ln \lambda \cdot \frac{x}{\sqrt{x^{2}+1} \cdot (x^{2}+2)} \cdot 2x \operatorname{col}(x^{1}+x^{2}$

Cab