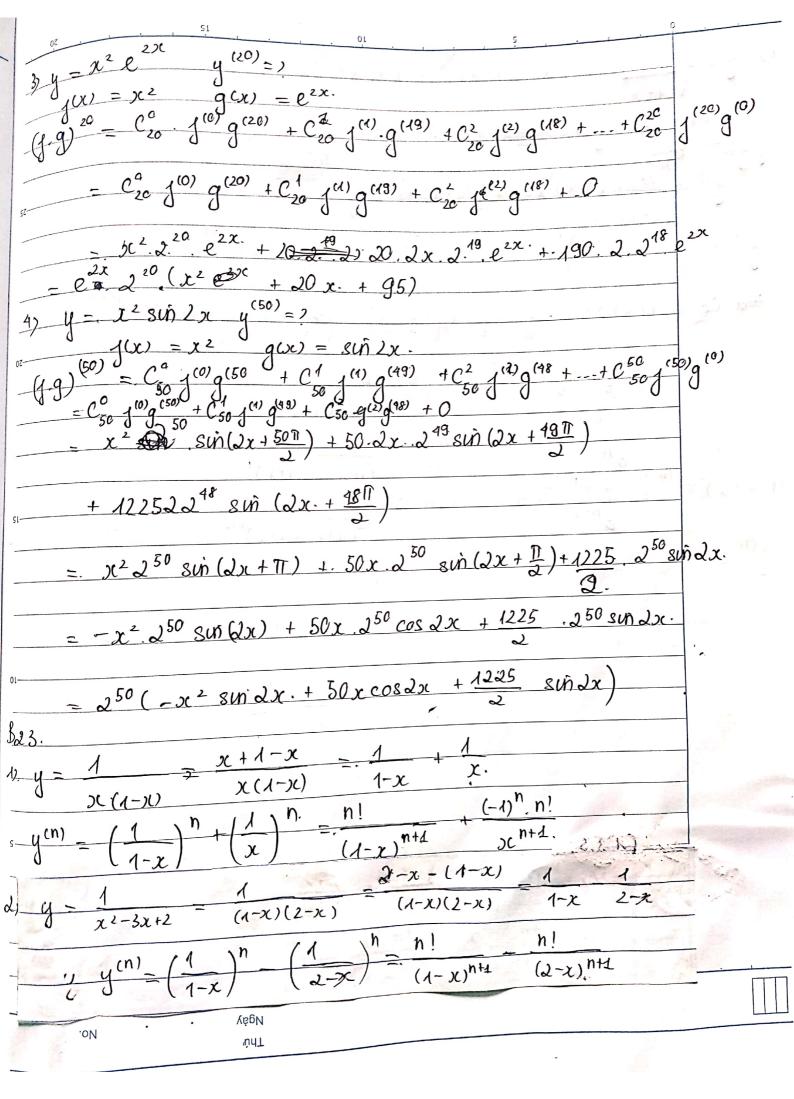
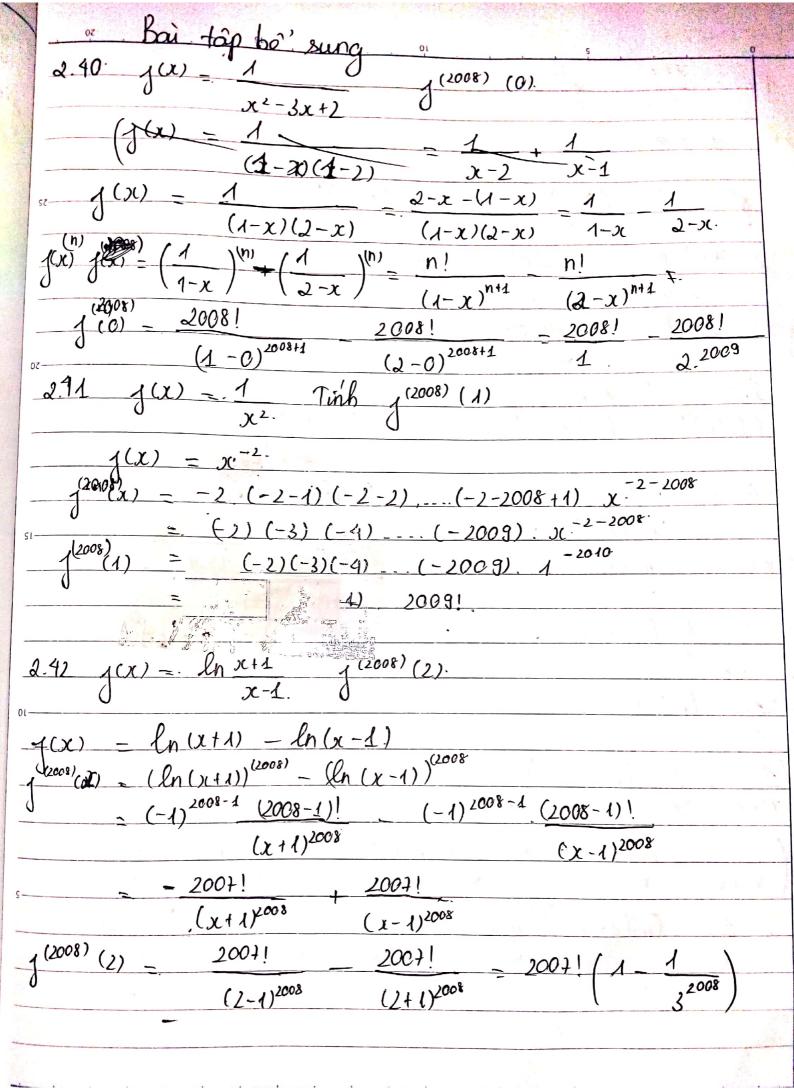


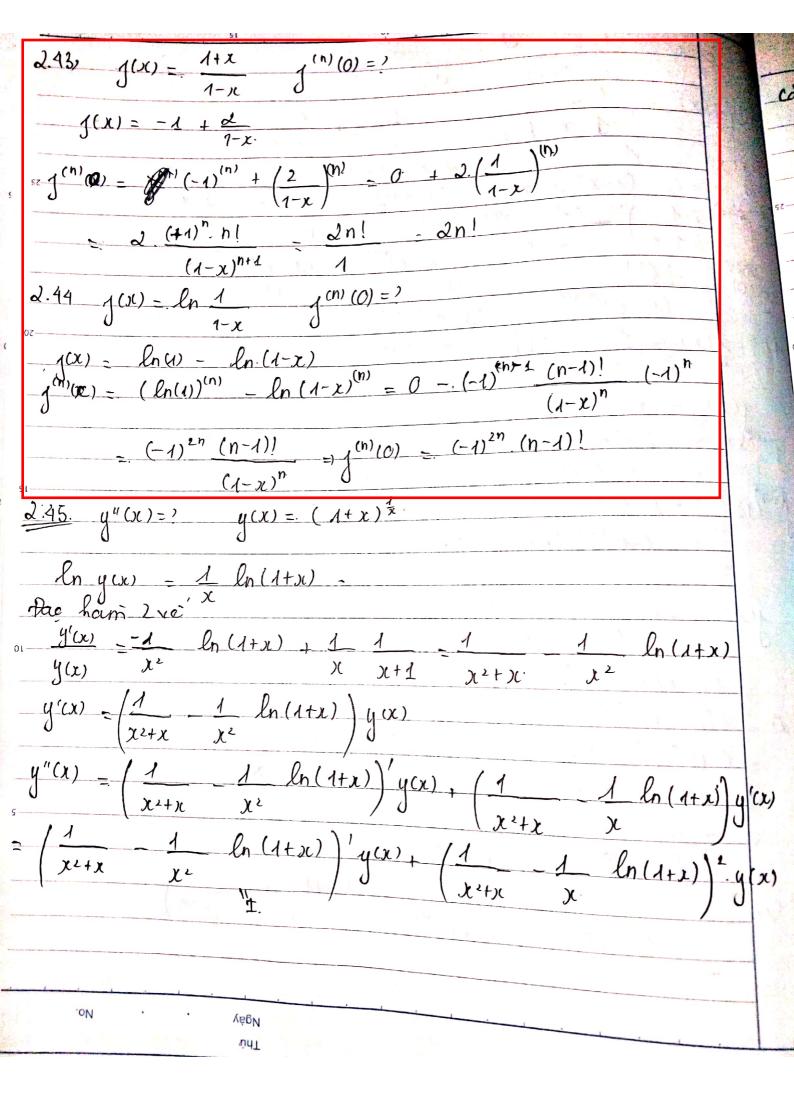
Scanned with CamScanner

3) $x_{t} = a(t - sint) \rightarrow x'_{t} = a(1 + cost) - 2a sin \frac{t}{2}$ $y_{t} = a(1 - cost) \Rightarrow y'_{t} = a sint = 2a sin \frac{t}{2} cos \frac{t}{2}$ Bai 22) $\frac{1}{2}y - \frac{x^2}{1-x}$ $y^{(8)} = 2$ $y = \frac{1}{1-x}$ (x+1)- $\frac{y^{(8)} - \left(\frac{1}{1-x}\right)^8 - (x+1)^8 - (-1)^8 \cdot 8!}{(1-x)^{8+1}}$ $\frac{2}{\sqrt{1-x}} = \frac{1+x}{\sqrt{1-x}} = \frac{(x+x)(x-x)^{-\frac{1}{2}}}{\sqrt{1-x}} + \frac{y^{(100)}}{\sqrt{1-x}} = \frac{1}{2}$ $\frac{f(x) = 1 + x}{g(x) = (1 - x)^{-\frac{1}{2}}}$ $\frac{g(x) = (1 - x)^{-\frac{1}{2}}}{100} = \frac{(1 - x)^{-\frac{1}{$ $= \frac{C_0}{100} + \frac{(0)}{100} + \frac{(1)}{100} + \frac{(1)}{100}$ $\frac{(o'(1-x)^{-\frac{1}{2}})^{(n)}}{(1-x)^{-\frac{1}{2}}} = \frac{(1)^{(n)}}{2} \frac{(-\frac{3}{2})^{(-\frac{3}{2})}}{(2)^{(n)}} = \frac{(1-x)^{-\frac{1}{2}-n}}{(2)^{(n)}}$ $= \frac{(-1)^n (1.3.5; (a'-2n))}{2^n} \sqrt{1-x(1-x)^n}$ 1.3. (2 2n) (2n-1) (+4)h+1 $\sqrt{2}$ $\sqrt{1-x}$ $(1-x)^n$

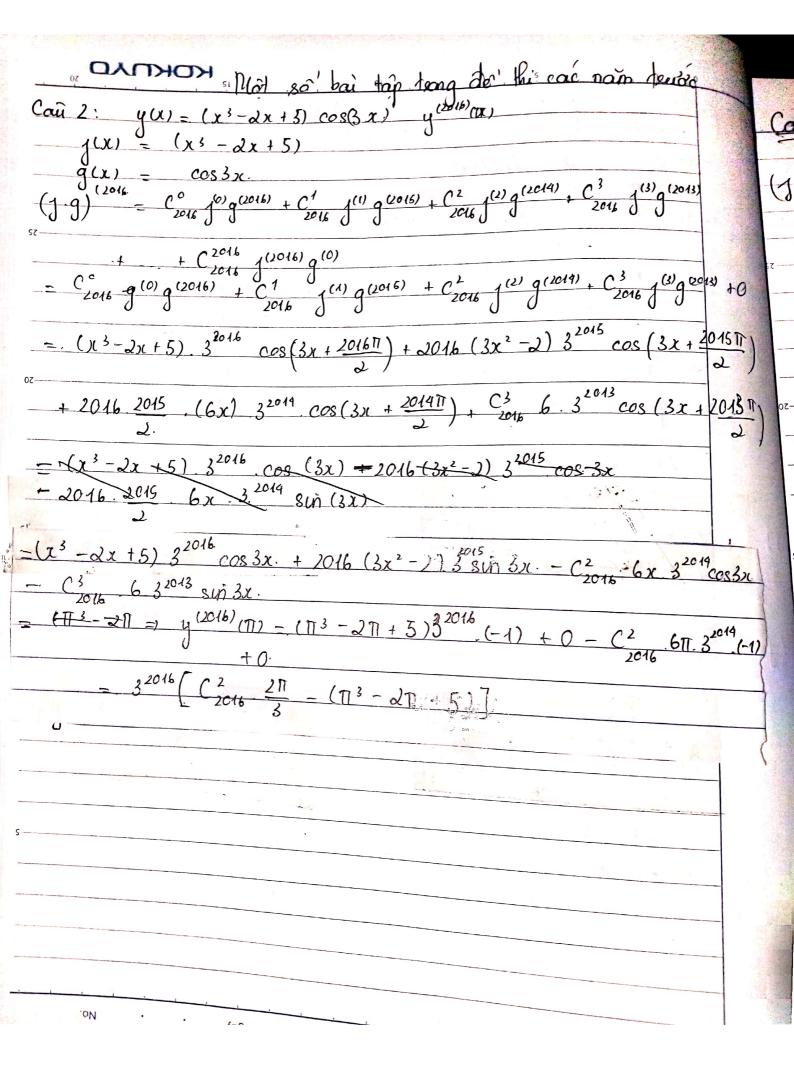


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\frac{(h) - x}{(f \cdot g)^{(n)} - C^{a}} \frac{g(x) - (1+x)^{-\frac{1}{5}}}{(h \cdot g)^{(n)} + C^{a}} \frac{g^{(n)} + C^{a} + C^{b} + C^{b} + C^{b} + C^{b} + C^{b} + C^{b}}{(h \cdot g)^{(n)} + C^{a} + C^{b} + C^{b
                                 \frac{co'((1+x)^{-\frac{1}{3}})^{(n)}}{3} = \frac{-1}{3}\left(\frac{-1-\frac{1}{3}}{3}\right)\left(\frac{-1}{3}-2\right) = \frac{-(3n-2)}{3}\frac{1}{(1+x)^{n+\frac{1}{3}}}
\frac{(1+x)^{-1}}{3^{n}} \frac{(1+x)^{n+\frac{1}{3}}}{(1+x)^{n+\frac{1}{3}}} = \frac{(-1)^{n}}{3^{n-1}} \frac{(1+x)^{n+\frac{1}{3}}}{(1+x)^{n+\frac{1}{3}}} = \frac{(-1)^{n}}{3^{n-1}} \frac{(1+x)^{n+\frac{1}{3}}}{(1+x)^{n+\frac{1}{3}}} = \frac{(-1)^{n+1}}{3^{n}} \frac{(1+x)^{n+\frac{1}{3}}}{(1+x)^{n+\frac{1}{3}}} = \frac{(-1)^{n}}{3^{n}} \frac{(1+x)^{n}}{3^{n}} = \frac{(-1)^{n}}{3^{n}} = \frac{(-1)^{n
                                                                                                                                                                             \frac{5^{n}}{(1+x)^{n+\frac{1}{3}}}
\frac{(1+x)^{n+\frac{1}{3}}}{(1+x)^{n+\frac{1}{3}}}
\frac{3^{n}}{(1+x)^{n+\frac{1}{3}}}
\frac{(1+x)^{n+\frac{1}{3}}}{(1+x)^{n+\frac{1}{3}}}
                                                                                = \frac{(-1)^{n}}{3^{n}} \frac{1}{(1+x)^{n+\frac{1}{3}}} \frac{(1.4...(3n-5)) [(3n-2).1.(-1)x+3n]}{(1.4...(3n-5)) [(3n-2).1.(-1)x+3n]}
= \frac{(-1)^{n}}{3^{n}} \frac{1}{(1+x)^{n+\frac{1}{3}}} \frac{(1.4...(3n-5)) [(3n-2).1.(-1)x+3n]}{(1+x)^{n+\frac{1}{3}}}
= \frac{(-1)^{n}}{3^{n}} \frac{1}{(1+x)^{n+\frac{1}{3}}} \frac{1}{(1+x)^{n+\frac{1}{3}}
```





```
(a) = \left(\frac{-2x - 1}{(x^2 + x)^2} - \left(\frac{-2}{x^3} \ln(1 + x) + \frac{1}{x^2} + \frac{1}{x^2}\right) + \frac{1}{x^2} + \frac{1}
                                                                                (-2x-1)x. +2\ln(1+x)\cdot(2(+1)^2-2(x+1)
                   \frac{x^{3}(x+1)^{2}}{x^{3}(x+1)^{2}} = \frac{-3x^{2}-x}{x^{3}(x+1)^{2}} + \frac{2\ln(x+x)(x+x)^{2}}{x^{3}(x+1)^{2}} = \frac{-3x^{2}-x}{x^{3}(x+1)^{2}} + \frac{(x+x)\ln(x+x)(x+x)^{2}}{x^{3}(x+1)^{2}} = \frac{-3x^{2}-x}{x^{3}(x+1)^{2}} + \frac{(x+x)\ln(x+x)(x+x)^{2}}{x^{3}(x+1)^{2}} = \frac{x^{3}(x+1)^{2}}{x^{3}(x+1)^{2}} = \frac{x^{3}(x+1)^{2}}{x^{3}(x+1)^
                                                                      = y(x) \cdot \left[ -3x^{2} - 2x + 2(1+x^{2})\ln(1+x) + (1-(x+1)\ln(1+x))^{2} \right] \cdot \frac{1}{x^{2}(x+1)^{2}}
                                                                           = \left[ \frac{-3x^{2} - 2x + 2(1+x^{2}) \ln(1+x)}{x} + (1 - (x+1) \ln(1+x))^{2} \right] \frac{(1+x)^{\frac{1}{2}}}{x^{2}}
\int_{1}^{1} \frac{1}{x^{2}} \frac{g(x)}{1} = \frac{\sin x \cdot (x^{2} + 1)}{1} \frac{g^{(20)}(x)}{1}
             (1.9) = C_{20} \int_{0}^{(0)} g^{(20)} + C_{20} \int_{0}^{(1)} g^{(1)} g^{(1)} + C_{20} \int_{0}^{(2)} g^{(8)} + ... + C_{20} \int_{0}^{(9)} g^{(1)} + C_{20} \int_{0}^{(20)} g^{(0)} g^{(0)}
                              = Cot (0) g(20) + C1 (1) g(19) + C2 (2) g(18) + 0
                                                (311) (x^2+1)(3inx+2011) (320+20.2x.1^{19}sin(31+1911)
                       + 190.2.1^{18} \sin(x+18\pi)
-(x^2+1) \sin x. + 40x \cos x + 380 \sin x
                           = (x - 379) sinx + 40 x cosx
```



```
\frac{\partial u}{\partial x} = \frac{\partial u}{\partial x} + 1 = \frac{\partial u}{\partial x} + 
(1.9)^{(2017)} = 3x^2 + 1 \qquad g(x) = 3xn^2 x
(1.9)^{(2017)} = C^0 \qquad f^{(0)} q^{(2017)} \qquad + C^1 \qquad f^{(1)} q^{(2016)} + C^2 \qquad f^{(2)} f^{(2016)} + C^{(2017)} q^{(0)}
                                     = \frac{C_0}{2011} \cdot \frac{1}{1} \cdot \frac{1}{1}
     ) Cet g(x) = 8in^{2}x \cdot = \frac{1}{2}(1 - \cos 2x)
g'(x) = 8in^{2}x - \cos (2x + \frac{\pi}{2})
g''(x) = 2sin^{2}(2x + \frac{\pi}{2}) = 2\cos (2x + \frac{\pi}{2})
g'''(x) = -4 \sin (2x + \pi) = -2^{2}\cos (2x + \frac{3\pi}{2})
g'''(x) = (-2)^{n-4}\cos (2x + n\pi)
  y^{(2017)}(x) = \frac{C^{\alpha}}{2017} (3x^{2}+1) \cdot (-2)^{2017-1} \cos(2x + 2017)
     + \frac{C_1}{C_{201+}} = 6x - (-2)^{2016-1} \cos \left( \frac{2}{201} + \frac{2016\Pi}{201} + \frac{C_2}{201} + \frac{6}{201} \cdot (-2)^{2015-1} \cos \left( \frac{2}{2}x + \frac{2016\Pi}{2} \right) 
        = \frac{(3x^{2}+1) \cdot 2^{2016} \cos (2x+20171)}{(2x+2015)} + 2017 \cdot 6x \cdot 2^{2016} (-1)^{2015} \cos (2x+20161)}
                 y^{(2017)}(T) = 0 - 2017 6TI 2015 + 0 = -2017 6TI 202015
                     Can 32 Tinh đạo ham y"(x) {x = t-sint
                               x' = 1 - \cos t = 2 \sin^2 \frac{t}{2}

y' = \sin t = 2 \sin \frac{t}{2} \cos \frac{t}{2}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 làm rất tốt
                      y'(x) = \frac{y'}{x'} \frac{2 \sin \frac{t}{2} \cos \frac{t}{2}}{2 \sin \frac{t}{2}} \frac{\cos \frac{t}{2}}{\sin \frac{t}{2}} = \cot \frac{t}{2}.
y''(x) = \frac{(y'(x))'}{x'} = \frac{(\cot \frac{t}{2})'}{2 \sin \frac{t}{2}} = -\frac{1}{2}.
y''(x) = \frac{(y'(x))'}{x'} = \frac{(\cot \frac{t}{2})'}{2 \sin \frac{t}{2}} = -\frac{1}{2}.
2 \sin \frac{t}{2} = \frac{1}{2}.
```