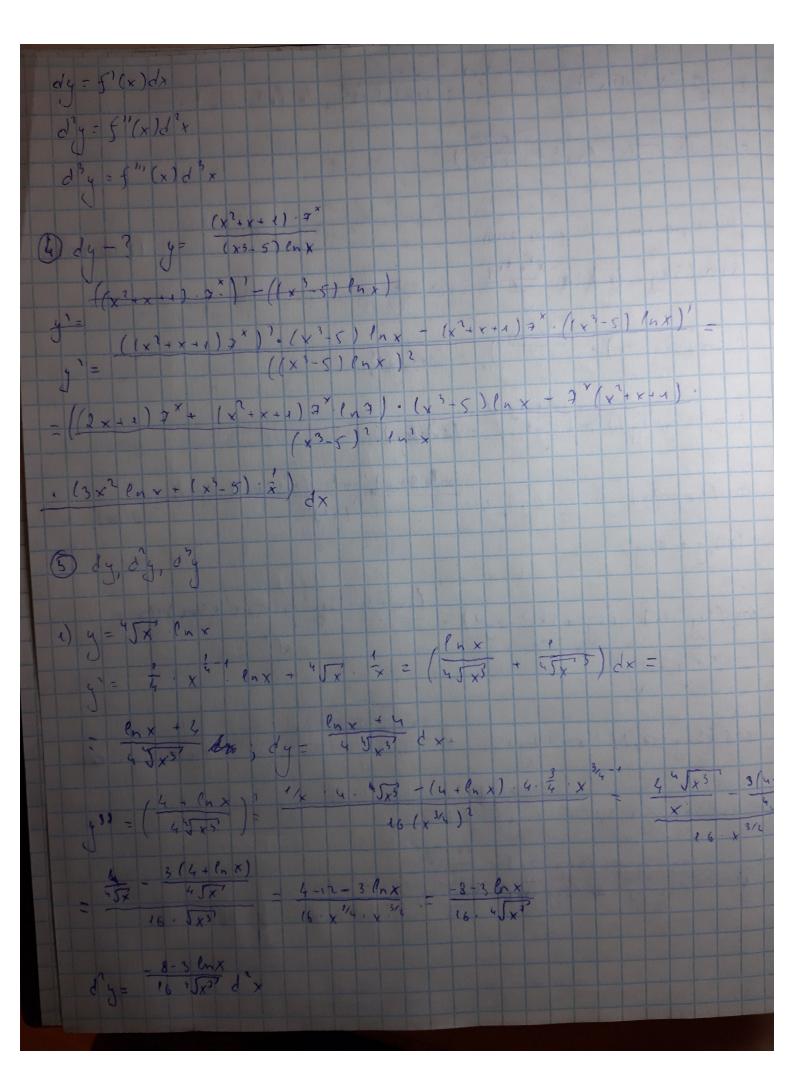
· Ja-(x2.1)2 12.10,2020 (5:n (3xy-2y) + x +3xy ) = (2x+xy), (3x4-74) (3x4-74) + さ、かまな、なる



2151.605 1. sin'(x1) + (0)"(x4) 3 x 16 x 2 -1-8-3 (A Y ) 16. 2 - x 2 -1 4 11 = -8-5 lnx = -= -48 - x 3/4 + (8+3 lnx) 4+7. x 3/4 x 3/4. (-17 + [8+3 lnx)-3 134 = 64. 45x11 dx (5) 2) dy, dy, dy y'= (202 (x5))'= 2+g(x5). (+g(x5))'= 2 + 2 + g(x5). (x5) =  $= \frac{10 \cdot x^4 - 2g(x^5)}{\cos^2(x^5)} \cdot \frac{10 \cdot x^4 + 2g(x^5)}{\cos^2(x^5)} \cdot \frac{10 \cdot x^5 + 2g(x^5)}{\cos^2(x^5)} \cdot \frac{$ (10x4. to(x5)) = (10x4. to(x5)). tos\*(x5) - (0x4. to(x5))-2 2032(x5). ((10x4)). tq(x5) + 10x4(to(x5))) - 10x4. dq(x5), (-1) sin(x5). 5x4 - 40x3, cos(x5). sin(x5)+ -100 x 5: n(x5) . 19 (x5) - 100 x 5: 19 (x5) + 50x 40x 29 (x5) 0 50x (x5) + 60x 29 (x5) 2 = (100x 5: n(x5) . lg(x5) 50x + 40x42g(x5) dx3

```
200x sin (x5) , 50x 40x 40x 40(x5) ) =
     = (100x8.sin2(x5)), cos5(x5) - 100x8.sin2(x5).log5(x5)) (50x8) cos4(x5)
                                                                                                                  20310 (X5)
          50 x3. (cos4 (x5))1 (40x3 tq(x5)) cos2(x5) -40 x3tq(x5) [cos2(x5)]
        - (800 x 3 sin (x 5) + 100 x 9.25 in (x 5) . cos(x 5).5 x 4) cos (x 5)
                                                                                                                                 cog10 (x5)
                 100 x sin (x5) . 5 cos (x5) . (-5:n(x5)) 5x4 400x3. cos 4(x5)
                                                                                                           cos 10 (x5)
   - 50 x3. 4 cos (x5) . (-sin(x5)). (x5) . (20 x2 tg(x5) + 40x3.5 x4. cos (x5)) cos (x5)
                    40 x3 tg (x5) -2 cog (x5) -5 x4. (-sin(x51) [800 x2 sin2(x5) + 1000x12. sin(x5) cos(x5)
\frac{1}{4} \frac{2500 x^{16} \sin^2(x^5) \cdot \cos^4(x^5) \cdot \sin(x^5)}{\cos^4(x^5)} \frac{400 x^7}{\cos^4(x^5)} \frac{1000 x^{12} \sin(x^5)}{\cos^5(x^5)}
(a) \lim_{x\to 0} \frac{\ln s(n(\pi x))}{\ln s(n(\pi x))} = \frac{\ln s(n(\pi x))}{\ln s(n(\pi x))} = \frac{\ln s(n(\pi x))}{\ln s(n(\pi x))}
\frac{1}{2}\lim_{x\to 0} \frac{1}{x} = \cos \frac{\pi}{x}
= \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} \frac{\pi}{x} = \lim_{x\to 0} 
      \frac{78 \cdot \cos x - 49x \sin 7x}{x \Rightarrow 0} = \frac{2}{2} = 1
```

2) lim (1-x3 - 1-x2)=[0-0] = lim ((1-x)(42+x4x2) - (1-x2)(1+x))  $= \lim_{x \to a} \left( \frac{1+x}{(1-x)(1+x+x^2)} - \frac{1+x+x^2}{(1-x)(1+x+x^2)} \right) = \lim_{x \to a} \left( \frac{1-x}{(1-x)(1+x+x^2)} \right)$ 2 1 = 0 3) lim (x.ln(x)) = [0.00] = lim = [0] = [0  $= \lim_{x \to 0+0} \frac{(\ln x)'}{(1/x)'} = \lim_{x \to 0+0} \frac{1/x^2}{(1/x)'} = \lim_{x \to 0+0} \frac{1/x^2}{(1/x)$