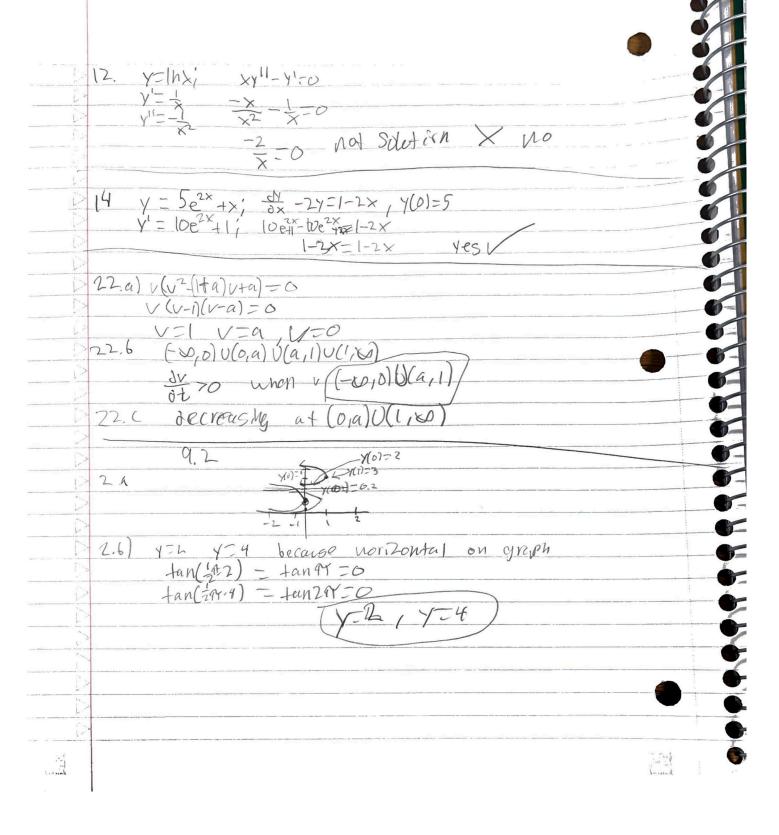
Homework 05	Graded
Student	
Colin Cano	
Total Points	
9 / 10 pts	
Question 1	
Completion	8 / 8 pts
✓ - 0 pts Complete	
– 2 pts Mostly complete	
- 4 pts Half complete	
- 6 pts Mostly incomplete	
- 8 pts Incomplete	
Question 2	
Correctness of 9.1#14?	1 / 2 pts
- 0 pts Correct	
 ✓ - 1 pt Partially correct 	
– 2 pts Incomplete or incorrect	
need to check the initial condition as well	

Homework # 5 $\frac{1}{x} = \frac{1}{4} \left(\frac{1}{x} + \frac{1}{x} \right) \left(\frac{1}{x} + \frac{1}{x} + \frac{1}{x} \right) \left(\frac{1}{x} + \frac$ Centrois: (= 3, 4) Probability of rombin tire having 30K-40K miles $= \int_{1}^{3} \frac{2(3x-x^{2})}{9} + \int_{3}^{\infty} 0 dx = \frac{2}{9} \int_{1}^{3} (3x-x^{2}) dx = \frac{2}{9} \left(\frac{3x^{2}-x^{3}}{2}\right) \Big|_{1}^{3} = \frac{20}{27}$ $\left. k \right|_{0}^{3} 3 x^{2} x^{3} = \left. k \left(x^{3} - \frac{x^{4}}{4} \right) \right|_{0}^{3} = \frac{27k}{4} = \frac{27(\frac{2}{4})}{4} = \frac{3}{5}$ 9+- K(N-X) 6. Y=Sin_l-cosx; y+y=2sinx y = COSX+SinX' COSX+SinX+SinX-COSX=29,74 25,112=25,nx V V85 8. Y=fonx; y'-y=1 y'= sec2x; Sec2x-tan2x=1 / 405 10. 4= JI-x2, YY'-x=0 Y'= X J VI-x2(-x VI-x2 $\sqrt{1-x^2}\left(\frac{-x}{\sqrt{x-x^2}}\right)-x=0$ -2x=0 X NO



3 1-1 4-2 4'-0 4 y = 2x - YX graph 3 5. groph 4 gaph 1. Y=2 nos Osloje at Y=2 4=->11 1=-1 6. graph 2, only one veft. true in4 (0,0) = 6-0+1 = 1(1,0) = 0-1+1 = 010- y'= x-y+1 (0,1)=1-011=2 (-3,0)=0+3+1= 4 21 y'=4-2x, Y(1)=0 Step 5:20 0.5 = h (Ko1/0)-(10) Y, = Yo+hF(x0, Yo) | Xn | Yn | F(xn, Yn) Y, = 0+0.5(-2) =-1 Yz=-1+0,5(-4)=-2 =-3 $y_3 = -3 + 0.5(-7) = -3.5 = -6.5$ $y_4 = -6.5 + 0.5(1.5) = -12.25$ 2.5 -65 -11.5 125 -18.25 St(P 5:20 0.2: h to religione Y(0.6), thF(x0+Y0) Y=(OS(X+Y) Y(0)=0 24.9) $Y_1 = Y_0 + h F(x_0, Y_0)$ F(x0, y0)=(0,0) VI=0+0.2(1) =0.2 n/xn/Yn/ F(xn, yn 1/2- 0.2+0,2(coso.4) 1 0.2 0.2 (05(6.7) 2 0.4 0.3842 784L 0.400(0.4) 13-0.38(2+0,2 cog 17812) - 0,5298 y(0.6) 2 0,526

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