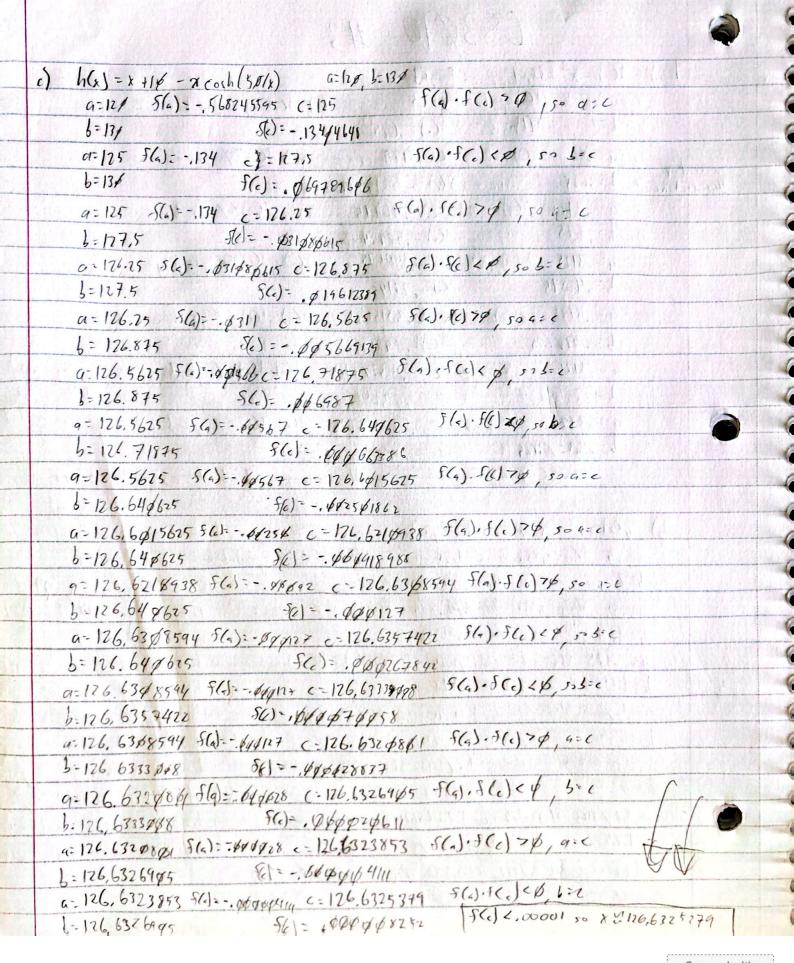
CS3010 #3

```
| a | f(x) = x^3 + 3x - 1 | on [p, 1]
        1=1 5(1)=3 5()=,675 MM
        9=0 56/2-11 0=13175
                                  S(e) S(e) 7d 1, 50 9= 6
messalvy
         b=.625 -. 93/982420 A
this oretine 7
        a: .3125 S(q)=-,03 (= .46875 S(a)-5(a)</br>
         5=, 675 S(c)= 549246876
                                  5(1) . 5(1) 6/ 50 /21
         9= .3175 8(a)=57 Cz .348625
         5=.46875 SCJ-. 23148
        4-.3125 f(s):-, 67 c=.3515625 S(s).f(c) < p, 5.6:0
         5=.39$625 S(c)=.498139
        9=,3125 563=,93 c= 33283124 Shishishishishis
        3=,3515625 865=,932698
        9 = .3125 ( 322265675) S(a) ( 1505= 6
        5-033203/15 5(1)-100266
          Stirt Eight so the vero is
    b) g(x)=x3-2sinx on [,5,2]
      9= ,5 565--,833851 C=1.75 SCOSCOCK, so bic
      6=2 (56)=.055156
      9= 5 5(4) =-,833 MC- NTM: 875 FC-) + 507/ 509=0
      b=1,75 (CO)=+.865165 (ont
      9- .875 5(a)--,87 (=1,9625 f(a),5(d)>9,50 acc (1)
      1-1.29, 1 (Su)=1-.848 - 100 Add of the
                                         C 1-1.25 11/1
      0= 1,8625 560=-,542 C=1,1560 560(560) > 0,525=1 N
      1-1,75 , Sept. 1-,78474, 88 (18)
     a= 1.14 625 flas==285 c= 1.263125 flas flas flas soq=0
                                          4-1,232421575 flat-1/14 /-1,23535156
      6=1.25
                                         7 5=1.23826125 (56)=-.00376
     9= 1.2/3115 56)=-124 c= 1.2265615 f6)1560) 700, 50=0 9=1.2265615 86): $3376 c=1.23242187
                                          6-1.26828125 11 5/0=- 01471
     6=1.25
     a=1.2265675 FW= -. 43776 C= 1.23878125 SCJESCOLED, 50616
     b=1.25
```

la) continue 20 (0) (1) (1) (1) (1) (1) (1) 9=,7125 \$(4)=-1032 C= 31738 2813 fla). fla) > p , so 4=10 b= 322265675 Se) - - 1614881965 F (3) 4 33 a. 317382813 560)=-,615 C= 314824219 1864). 5(6) 79,50 aze 5=.327265625 SC) -, 64 7813314 **发展的**。 a= 319824219 5(4)=-,6178 c= 32/44422 5(4). 5(c)>6,500= C La lie al region de la constante de la constan 1= . 322265625 561= - , 0,\$3775 a-. 321/44972 56)=- 883376 c- 321 155274 (56) 76, 1042 c 5=.322165625 5(12-191755 fle) (.041, 50 x41.327/13/37 a= .321655274 fa)-- . 94725 C= .321918449 8 b=.32276562× | f()=-,969745 a=32196 d449 fla)=-,4117 c= ,322/13477 b= 327263625 86) - - , \$46739 12.) cont. a-1,235351563 S(4)=-, Kysz66 (=1,23 68164\$) S(5)1985 cd, b=c 5= 1.23828125 Slave-, (40,0 560)=, 6/2486 S(a).5(c)7\$, ==c a: 1.235751563 5(a)= 9/39661 6=1,236683985 b=1.236816467 560=-. \$661392 U=1.236\$83985 5602.44ps= c=1.736456196 56016 56016 5:0 6=1,236816487 56)-1001046 a=1,236683985 flat=-,648392 c=1,236267091 flat. flat b=c b=1,236456196 S(c)=. 1940327 4-1,236 \$83985 flat: -, 469192 C=1,236175538 5(4).5(1) 7\$, d=c 6=1,236267991 5(1)=-,400633 5(a).5(c)< p bic 11-1,236175538 56)=-,686833 C=1.236221314 b=1.236267\$91 S(.)= ,\$1\$147 a=1,236175538 FC)=-, 48073 (=1,236198426 5(4).5(1) < \$ 5=c b=1.236221714 5(c)=1809057 a=1,236175538 f(1)=-,01833 c=1,236186482 1-1.236198426. 56= 100912 SCOC, 00001, 50 X & 1.236186982



2 f(x) = x3+2x2+10x-20 x 1=2 5(1)= 3x2+4x+10 2, -2-30 = 1,46667 X2=1,46627 - 21.32 = 1,3715/2017 $X_3 = 1.7 = 1512947 - \frac{.057686}{21.129184} = 1.368816246$ $X_4 = 1.368816246 - \frac{.668845}{21.096164} = 1.368868113$ X5-1.768808117 - 1.768808117 - 1.368888148 5(x4) < . 99061, 50 x 5 1.368898198 3, $5(x) = x^3 + 2x^2 + 10x - 20$ 7 = 2, 2 = 2, 2 = 1 $2 = 2 - \frac{3(x_1 - x_2)}{5(x_1)} \cdot \frac{5(x_1)}{5(x_2)} + 1 - \frac{(1-2)(-7)}{-7 - 16} = 1 - \frac{(-1)(-7)}{-23} = 1.30/43/47826$ $\mathcal{U}_3 = \mathcal{U}_2 - \frac{(\varkappa_2 - \varkappa_1) \cdot 5(\varkappa_2)}{5(\varkappa_2) - 5(\varkappa_2)} = 1.3 \phi \cdot 434782 b - \frac{(.38434782 b - 1)84 - 1.334758}{-1.334758 + 7} = 1.14644886$ 24-1.14644886-1.364347822) (-4.519969) = 11.373273461 (1.373203461-1140418814 (1893266) 763-1,373723461 - TO (0,993=66) F (4.510969) = 1.3685 \$8246 X6=1.3685\$8246-1.373223461)(-, \$66325) = 1.3685\$77\$8 17-1,7688\$77\$8- (1.3688\$2768-1.3685\$8846)(-,6\$\$\$\$\$) = 1.3688\$7329 - (x6) < 0 ppp), so Reco 15 x 21.3688 p = 329