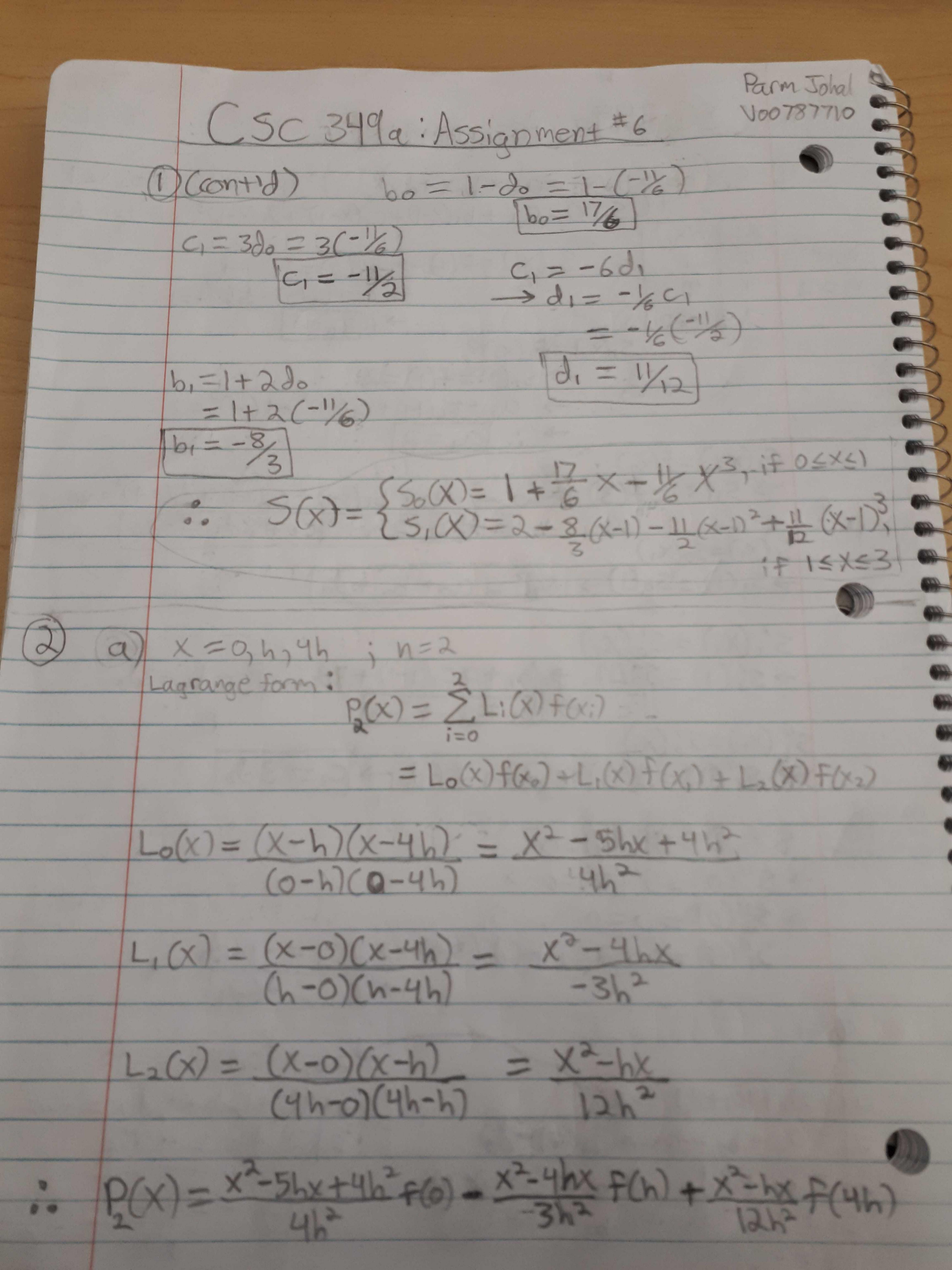
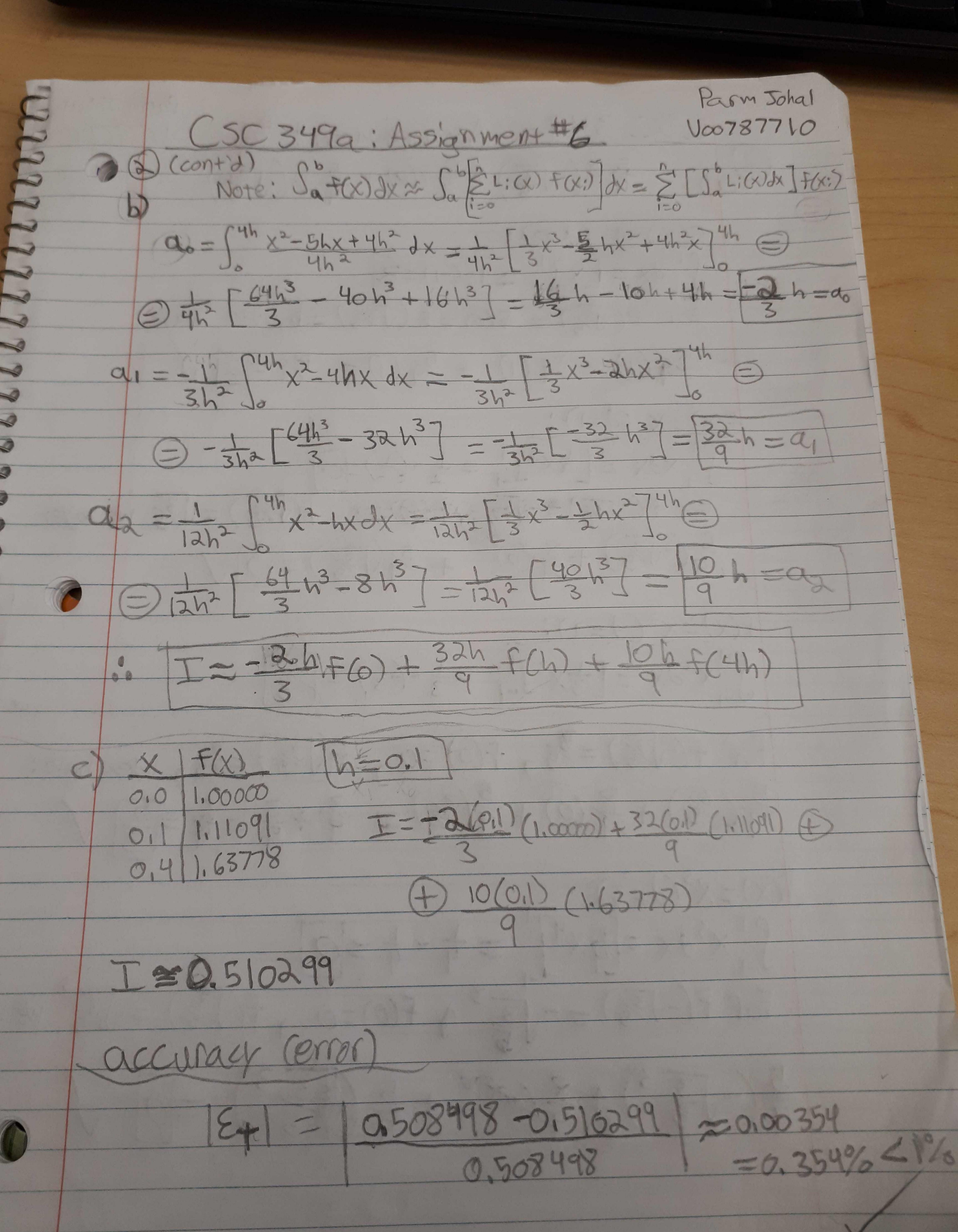
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Parm Johal
                                                                V00787710
                    C349a: Assignment #6
               S(x) = \{S_0(x) = a_0 + b_0 x + d_0 x^3, | 17 0 \le x \le 1 \}

\{S_1(x) = a_1 + b_1(x-1) + c_1(x-1)^2 + d_1(x-1)^3, | 17 1 \le x \le 3 \}
                   F(X;)
                              So(x0) = F(x) -> 50(0) = F(0)=1
      note:
                                            -> a + b (0) + d o (0)3 =1
                         5,(x1)=+(x1)
                              -> S,(1)= F(1)=2
                                 a, + b, (1-1) + c, (1-1)2 + d, (1-1)3=2
            \rightarrow 5(3) = f(3) = -20 \rightarrow \alpha_1 + b_1(3-1) + C_1(3-1)^2 + d_1(3-1)^3 = -20
                                     -> [a,+2b,+4c,+8di=-20]
           5,(x1)=50(x1)

35,(1)=50(1) > [a1=a0+b0+d0]
           S'(X_1) = S'(X_1)
           > s'((1) = 5'o(1) → b1 + 2C((1-1) + 3d((1-1)) = b0+3d0
          → 5,"(1) = 5,"(1) → 2C1=6do → G=3do
conditions: 5"(x0) = 5"(x2) =0
          -> 5"(0)=5"(3)=0=>
             5,"(B)=0=2C1+6d1(3-1)->2C1=-12d1
                                                   26,490,480,=-22
                                                   2+420+12200-4900===20
     an +26, +40, +80, =-20
                                                       3 40 = 2 - 22
```





E(x)=1 (d=0): S', dx = [x]; = 1-6-1)=[2] for F(-13/5) = F(0) = F(13/5) = D, we have: 29(1) + 39(1) + 59(1) = 189 = 2 V E(x)=x (d=1): For F(-V36) = -V36, F(0) =0, F(V36) = V36, We have:

349a: Assignme J', X" = [\fo X5], = \fo -('\fo) = For $f(-\sqrt{35}) = (35)^2$, f(0) = 0, $f(\sqrt{35}) = (35)^2$ we have: i. degree of precision = 5.

