PSet 13-Underson Coell. - Part I

1. 1"-1-x2 1(0)=0 1,(0)=-1

10 - 2AX+BX+C

2A-C-AX2-BX-X2

-A=1 = A--1

2.(-1)-C-O D C=-Z

10(1)=- X2-2

1,-1=0 = 1,-1=0=1-71

14(1) · c, e+ c, e+

1(H= c'e+ c'e+ - x-5 1,(H= c'e+-c'e+-sx

1(0) = C, + C2 - 2 = 0

3C1-1 = C1- 1 C2- C1+1- 3

1(1) = et + 3et - x2-2

2. 1"-1'-21=3x+4

10 = AX+B -A-2AX-2B = 3X+4 -0 -2A.X - A-2B=3X+4

10 = A =0

 $-2A = 3 = 0 A = -\frac{3}{2}$

-A-28-4 = 3-2-28-4 = 8= 3-8 = -5

 $\sqrt{b(t)} = -\frac{2}{3}x - \frac{4}{2}$

3. y(3) + 4y = 3x-1

10 - 2A 10 - 2A

10 - 2A 1031 - 0

8AX+4B=3X-1

5-A8 718=A

4B = -1 = B = -114

10 = 3x2 - 4x

$$\sqrt{b(7)} = -\frac{3}{t_3} - 3t$$