```
Polynomica Input
palmanial qui anxn+an-1xn-1+...1 ao
note q(a) = 90
     9'(0)=9,
Theorem (Undetermined Coeff.)
  p(0) # 0
                      - p(D) 1 - q(x) has execut one solin, a poul of dessee n.
   d(x) both george u
New Eximpled and Ardunes of 1900 parimentation to portland
liner, home-in-biral (LTI) DE PCDI = QCX)
assume a 10 of parm h(x), the better on not bestee passes with whenam well.
Sub you into the ODE. Be systematic.
Example 1"+31'+41 = 4x2-2x
Him sol'n 10 - Ax + BX+C, 10' - ZAX+B, 10 - ZA
10+310+410 - Ax2+BX+C + 3(AX+B)+4.2A = (4A)x2+(4B+6A)x+(4C+3B+2A)
compacio (mpa signal (4A) X2 + (4B+EA) X + (4C+3B+SA) = 4X2-SX
 => 4A=4 + A=1
     4B+6A=-2 - 4B+6=-2 - B=-2
    4C+3B+2A=0 -4C=6-2 - C=1
PCDI = 0 has poly solins = solin of pcol , a cill be of higher degree than that of acci
need to bump up degree of the valve by aides of basest desirable.
Ex: 1"+1'= X+1
10 - Axib doom't coall leads to A - X+1.
Try 10 - Ax2 + Bx, il coals: 10 - 2x2
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