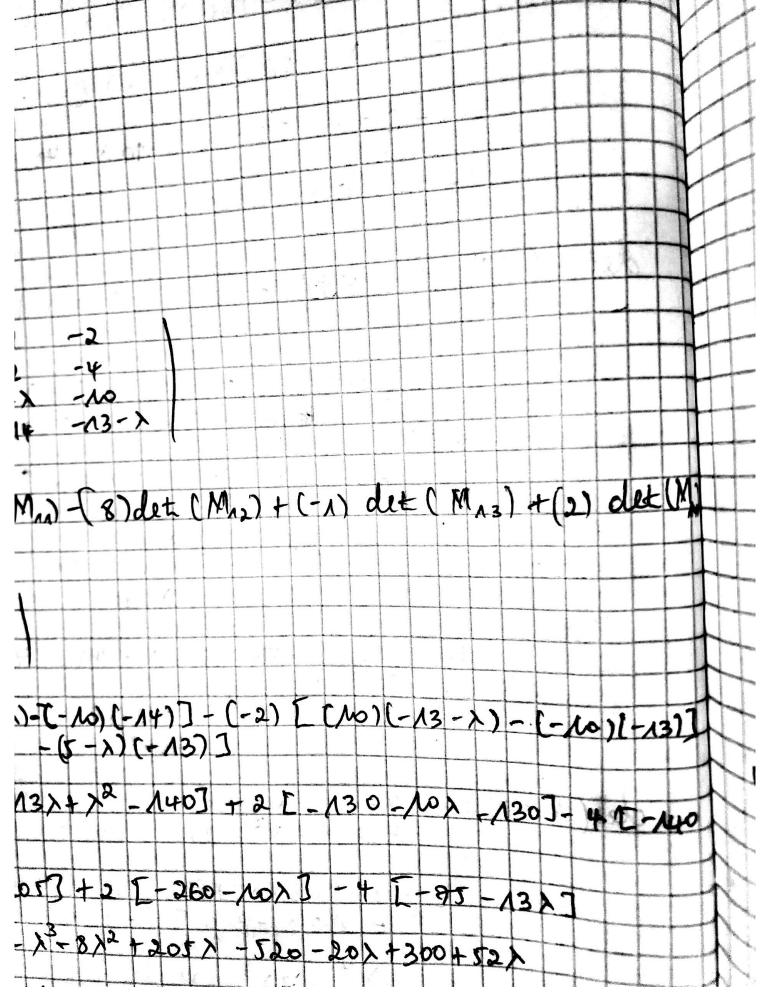


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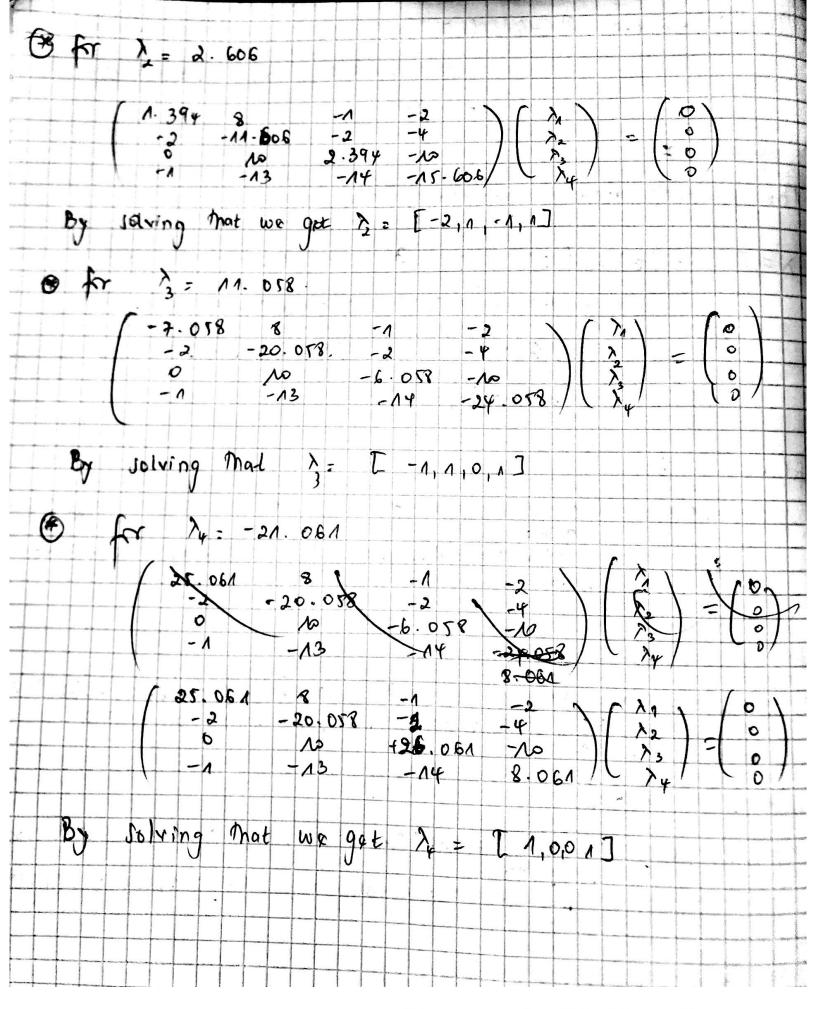
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```
de (Ma) = (-2) 7 /2 (-13-2) - (-12) (-13)] - (-9-2) [0(-13-2) - (-10)(-1)]+
         = (-1)[-130-10)-130]+ (9+2)[0-10]-4[0+10]
        = (-2) [-260+003]+[9+x) [-10]-40
             520+201-90-101-40
           = NOX + 390
 det (May) = 1 -2 -9-x -2
             + [(1-2) [ NO (5-7) - [-(13)] - (-9-7) [0(5-7) - (-13) [1-1)]+
                [-2] [0(-13)-10(-1)]
             = (-2) [50-101-130]+ (9+1)[0-10]-2[0+10]
               = (-2)[-80-10)]+(9+)][-10]-20
               = 160 + 20 x - 90 - 10 x - 20
                 = 102 + 50
de (+->I)= (4->)(->3-17>2+165>+1625)-8(-2>2-12>+390)+(-1)(10>+390)
           - (-2) ( lox +50)
          = fyes
          = -4)3-68>2+660)+6500+24+17>3-165x2-1625>+1625>+16x2+962
              - 2960-102 - 390+20x + 100
           = 4x3 -68 x2+660x+6500+x4+17x3-165x2-1625x+16x2+6x
                   - 2960 - 10) - 390 + do) + 100
                 1 + 13 x3 - 219 x2 - 835 x + 3500
 10 P(X) 2 1
         50 p(x) = x4+1313-219x2-835 x+3500
                    By Analyzing the polynomial's behavior.
                      P(X) = 3500 >0
    for \lambda = 0.
 Ð
                      P(-8) = (-8)4+13 (-8)3-219 (-8)2-835(-8)+3500
 6 M 7 = -8
                            = 4096 +13 (-512) -219.64 +835.8+300
                              = 14275-20672 = -639640
```

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```
For (3) N = -C (3) P (-6) = (-6) 4 + 13 C-673 - 219 C-62 ) + 835 C-6) + 350
                           = 1296 - 2808 - 7884 + 50/10 + 3000
                            = -886 CD
     (B) X 3
                mot is between
    The nearest
                                 (-6,-5)
( N= 5
            P(5) = (5)4 + 13(5)3 - 219 (5) - 8>5 (5) +3500
                      625+ 13(55) - 219 (25) - 4175+3500
                      625+715-5475-4175+3500
                          -5,433 60
€ Ad >= -5. 603
     p(-5.603) = (-5.603) +13(-5.603)3-219(-5.603)2-835(-5.603)
                  - 985-97 - 2291-97 - 6869, 97 + 4685. 51 + 3500
( for >= 2.606
    P( 2.606)= (2.606)4+13(2.603)3-219(2.606)2-835(2.606)+3100
                = 46.13+230.13-1487.13-2176.01+300
870.11 = 11.08
      P(11.058)= (11.058) + (13/(11.058)3-219 (11.058)2-835 (11.058)2
                  > 14934. 97 + 17589.97 - 26745.97 -9233.4313500
 8
    ~ > = -21.061.
    P (-21.061) = (-21.061) + (13)(-21.061) 3-219 (-21.061)2 (835) (-21.661)
                  = 196683.97-120853 97-97089.97+17585.94+3500
      ligen values, >1 = 5.603, >2 = 2.606, 73 = 11.058, >4 = 6-21.064
 (<del>=</del>)
             By replacing the eigen values in see the matrix
   for $ = - 5.603
             9.603
                     By jaying the we get = (0.5, 1, 0.5, $1)
```

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