

```
{ fu(s) = s.(lux)m
                                         puec ve e 1 - [1].
x) * by tue(x): him (x) = 0 = fm(0): fm xt mut. $\bar{\rho}$ dinte on 0.
   b.) x 70 fru (x) = 0.
    live + fully = line x (lex) = +00
    live tuly = live (leex) = + = : B.P. de 3.A. (oy).
A) Ux E R +: Im (x) = (lex) m + x.m. (lex) m - 2 = (lex) m - (lex + m).
                             ne leck = - ue < 1
   fucls) =0 6> lux =0
   et: ful1)=0; fue(em) = em (luem)m = (- ms)m
   him et pour alos m-1 et unpour
           (lux)m-x
          lux + Mu
         fu (x)
           Jul(x) 0
   sim est impair als met pair
             hus
           (lux) m-1
           lex+u
                                0
           ful(x)
                                0
            try (x) 0
                                              0
                                         { f(0) = x (lux)2
       f f (x) = x lux
   O(0,0) At me part somme.

H to >0, fours: filed = fr(to) (=) xlux = x (lux) =0

Ex lux (1-lux) =0
                                  (=) b=1 or x= e
         fr(1)=0 > A(1,0) & sait les 2 puritées
fr(e)=e > B(R,R) faits laurens.
  Just (x) - fue (x) = x (hex) met - x (leex) me
                    = x. (leex) w . (leex -1)
                lux-1 (0 => futn(x) - Jue(x) <0 => Cru/

futn(x) = fue(x): Courts et Course ranjecut.

lux-1>0 => fuetn(x) - Jue(x)>0 => Crue(x).
   16x6R
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x 0 f'2(6) file) 0 / #2=0,54 pk+ = lue (ne eR). A=\u^-1 +\infty t + + = Luc (=) t2- Lut +1 =0 - n + 0 1'=0 pas de solution : 5 = 5. 1'=0 solution plantle : t,=t,=1 => ex = 1 = e° (=) x = 0 ! \$ > 0 plane which is dishriches. t, = m + Vm - 1 > 0 => k, = lu (m + Vm - 1) t, = m - Vm - 1 > 0 => p, = lu (m - Vm - 1) \$ = { lu (m - Vm - 1) } 4 > 0 2"+41+50 =0 (E) 1=-4(0 N=-1+2i (c) Jane(x) = x x (1 cools + x suils) puec tu E.R. landhais withbles: 1(1+0)=0 => 1=0. fu(x) = u'e x suide fu(x) = - u e x suide + 2 u'e x essée fu(x) = 1 (=) 0 + 2 u = 1 (=) u = 1/2 Solution particulate therebe: f: + > p=flog= f:e * sui 2p. 6° = 216 3.5° = 325 = 75 Nacay fosibles 1 C3 53 = 3.5 = 15

Ju = Sis! (lux) " olp. aucueN* In = In x liex oly U(10)= 12. U(10)= 1x3. Ja= Ja x lux dep (1)= lux (x)= 1 (x)= R) J1 = 3:e3 - 4(e3-1) = = = = = + 1 = = 10(x) = (lux) (lux) 4.1 x Juty = In st. (his) with obje リ(h)=xとう パカ)=なとう le.) Jut 1 = 3[x3. (lux) at 1] = - 4+1 / e 2. (lex) "olx Ju+1 = 3'e3 - 3 (u+1). Ju. 12 = 3e3- 1. (1+1) J1 = 1. e3- = (= e3+ =) = 3e3- = (2e3+1) J2 = JR3 - 4 = 3 - 2 = 27 R3 - 27. 0 2 m < 1 : 1 5 m > 0 MC > A S A S A 3 - In the Ton - In the wetter succ 2 m 6 B