```
> restart:
 with (Statistics):
 with (plots):
                     0.1 0.05
 0.01 0.005
 ChZnPoZap:=6:
 N:=10^ChZnPoZap:
 ShagT:=evalf[1](1/10^ChZnPoZap);
 SubdivizionTrue005:=[0, 0.002, 0.005432, 0.007021, 0.009403,
 0.022044, 0.02735, 0.035111, 0.036276, 0.0406, 0.053353,
 0.055209, 0.06885, 0.069522, 0.071398, 0.072472, 0.080219,
 0.081417, 0.106, 0.107365, 0.11135, 0.112779, 0.113114, 0.137649,
 0.139081, 0.14266, 0.14502, 0.14532, 0.1524, 0.16015, 0.16112,
 0.16592, 0.178368, 0.1789, 0.180737, 0.181805, 0.193463,
 0.194508, \ 0.196266, \ 0.196957, \ 0.209433, \ 0.20999, \ 0.21388,
 0.214486, 0.215524, 0.21561, 0.22257, 0.22363, 0.22754, 0.22814,
 0.24173, 0.24283, 0.257561, 0.258381, 0.259303, 0.272062, 0.2764,
 0.277756, 0.28443, 0.286677, 0.288702, 0.337439, 0.340146,
 0.347801, 0.354836, 0.357106, 0.357465, 0.361458, 0.362671,
 0.456858, 0.481319, 0.483195, 0.485141, 0.514796, 0.516835,
 0.518573, 0.543711, 0.545046, 0.552578, 0.553826, 0.555206,
 0.56999, 0.571647, 0.572281, 0.580212, 0.581792, 0.606287,
 0.607756, 0.610953, 0.61255, 0.637492, 0.639096, 0.642709,
 0.6453, 0.652508, 0.659425, 0.661763, 0.662616, 0.711453,
 0.713873, 0.714882, 0.730498, 0.73197, 0.73244, 0.736349,
 0.739811, 0.741402, 0.74271, 0.75628, 0.757027, 0.759005,
 0.759815, 0.767634, 0.769335, 0.793211, 0.795056, 0.802749,
 0.805194, 0.819847, 0.822389, 0.831511, 0.856348, 0.857871,
 0.861182, 0.863188, 0.886765, 0.887408, 0.88884, 0.892727,
 0.893085, 0.895377, 0.9024, 0.91, 0.911, 0.91508, 0.915755,
 0.928233, 0.929113, 0.93042, 0.93123, 0.943985, 0.946044,
 0.94693, 0.9591, 0.959964, 0.963969, 0.965048, 0.972781,
 0.978426, 0.990752, 0.995075, 0.99752, 0.9992, 1]:
 N005:=numelems(%);
        = 0.1, 97
 SubdivizionTrue01:=[0, 0.023719, 0.027577, 0.03505, 0.036389,
 0.038614\,,\ 0.086441\,,\ 0.088532\,,\ 0.090704\,,\ 0.097553\,,\ 0.098511\,,
 0.104947, 0.107061, 0.10762, 0.110933, 0.112439, 0.137714,
 0.142702, 0.145291, 0.15247, 0.160043, 0.1615, 0.163582,
 0.213014, 0.215944, 0.221817, 0.224756, 0.275041, 0.275883,
 0.278083, 0.285061, 0.286268, 0.290041, 0.290541, 0.304696,
 0.319835, 0.322512, 0.326147, 0.328, 0.422, 0.423154, 0.424327,
 0.427378, 0.428712, 0.430484, 0.431305, 0.443939, 0.448149,
 0.450805, 0.453, 0.547, 0.548946, 0.552339, 0.55377, 0.555211,
 0.569832, 0.571132, 0.572297, 0.580122, 0.581937, 0.605841,
 0.711579, 0.713599, 0.715636, 0.721734, 0.724735, 0.775513,
 0.778181, 0.785648, 0.789079, 0.820448, 0.821801, 0.822396,
```

```
0.826185,\ 0.828,\ 0.922,\ 0.923946,\ 0.927494,\ 0.930318,\ 0.944998,
0.94739, 0.956859, 0.98, 1.0]:
N01:=numelems(%);
sigma005 := evalf(GAMMA(ln(3)/ln(2)+1)*[0, 0.001712292217,
0.003187258397\,,\ 0.00426834073\,,\ 0.005666180747\,,\ 0.01076693522\,,
0.01439504481,\ 0.01766065087,\ 0.01867200149,\ 0.02113725979,
0.02612612901, 0.02758684733, 0.03307467239, 0.03350817579,
0.03443439764, 0.03513000896, 0.0386638205, 0.03969157334,
0.04946102197, 0.05026357509, 0.05227714248, 0.05330042672,
0.05356585003, 0.06266609002, 0.06361193797, 0.06546591233,
0.06684316085, 0.06706629948, 0.07012388608, 0.07337788875,
0.07413401016, 0.07690605779, 0.0819134435, 0.08233250532,
0.08324013084, 0.0839982878, 0.08822684399, 0.08900261776,
0.08973678768, 0.09022147968, 0.09521630249, 0.09569338287,
0.09741323565, 0.09783571952, 0.09833500986, 0.09848329209,
0.1012310528, 0.1020681591, 0.1040287458, 0.1044660382,
0.1099752748, 0.1108301968, 0.1168815945, 0.1175748864,
0.1180278519, 0.1231651531, 0.1254996448,
0.1265724311, 0.1293351275, 0.1305837193, 0.1320255153,
0.1502271534, 0.1524950656, 0.1557631002, 0.1588899112,
0.1600546757, 0.1604614694, 0.162173628, 0.1632531729,
0.1723608065, 0.1737151767, 0.1754324156, 0.1768236056,
0.1855913037, 0.1863391627, 0.1867494219, 0.1902060918,
0.2165770313, 0.2287200565, 0.2304148415, 0.2312407824,
0.240906638, 0.2419859587, 0.2455810322, 0.2464178365,
0.2473204322, 0.2532710764, 0.2546550578, 0.2551152191,
0.2585625969, 0.2599344507, 0.2691264418, 0.2701566479,
0.2715178414, 0.2727719617, 0.282152579, 0.2832041899,
0.2849327391, 0.2868021134, 0.289844962, 0.2928797345,
0.2941396461, 0.2949555956,
0.3132318419, 0.3146787882, 0.3155291811, 0.3224152067,
0.3234215117, 0.3238456195, 0.325587708, 0.3271114128,
0.3281331878, 0.3290782993, 0.3346409622, 0.3351862867,
0.3360905001, 0.3368455421, 0.3403162727, 0.3416852545,
0.3502669211, 0.3518626406, 0.3553006389, 0.3574302543,
0.3634027572, 0.3655267, 0.3706533182, 0.3801517644,
0.3812645174, 0.3828666521, 0.3842572158,
0.3927619682, 0.3931800765, 0.3942098599, 0.3959502724,
0.3963573172, 0.3976711532, 0.4006936672, 0.4039498932,
0.4047089066, 0.4066708314, 0.4071048928, 0.4120942777,
0.4126041114, 0.4131206195, 0.4136914614, 0.4187086583,
0.4200763827, 0.4205143282, 0.4252363655, 0.4259807333,
0.4277843619, 0.4286141912, 0.4319625277, 0.4356472973,
0.4406898461, 0.4431375476, 0.4447407188, 0.4455845394,
0.4464167501]);
sigma01:=evalf(GAMMA(ln(3)/ln(2)+1)*[0, 0.01701452824,
0.02003996187\,,\ 0.02317104403\,,\ 0.02438677733\,,\ 0.02562136429\,,
0.04321602114, 0.04467434255, 0.04590812097, 0.04866697337,
0.0493804554\,,\ 0.05202275582\,,\ 0.05313458841\,,\ 0.05356338545\,,
0.0550645239, 0.05601559221, 0.06602515008, 0.0689198108,
0.07079866303, 0.07383309055, 0.07703609084, 0.0782652198,
```

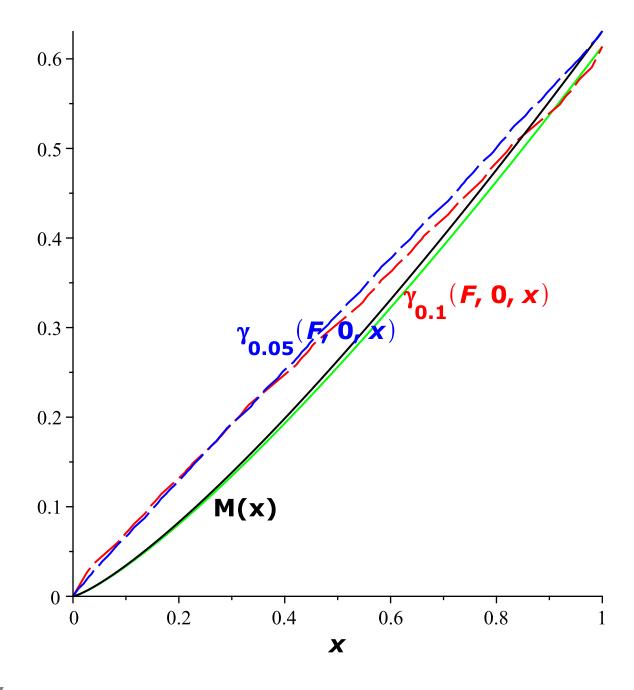
```
0.07949670827, 0.09834641289, 0.1003972657, 0.1024555288,
  0.1045183788, 0.1239293337, 0.1247582191, 0.1259960032,
  0.1287574144, 0.1298189545, 0.1315310868, 0.1319591413,
  0.1380371964, 0.1444528901, 0.1465400791, 0.1482546668,
  0.1497356467, 0.182843107, 0.1839129326, 0.184648229,
  0.1856764081, 0.1867038134, 0.1874541381, 0.1879306917,
  0.1930687969, 0.1954409078, 0.1969406299, 0.198690943,
  0.2317984032, 0.2335129819, 0.2350100235, 0.2359815453,
  0.2369759204, 0.2428863228, 0.2437041016, 0.2447039495,
  0.2481359401, 0.2495282315, 0.258305485, 0.2590275492,
  0.2597622902, 0.260814567, 0.2618220383, 0.2715202625,
  0.2725529141, 0.2742707021, 0.2758554371,
   0.2792141522, 0.2824233591, 0.2836470517, 0.2848843726,
  0.3024668792, 0.3038599138, 0.3051621717, 0.3074486766,
  0.3094887837, 0.3294388444, 0.3313502034, 0.3349828832,
  0.3377129545, 0.3514417248, 0.3524836225, 0.3528946558,
  0.3546141683, 0.3560858409, 0.3891933011, 0.3909078798,
  0.3926383399, 0.3946981068, 0.4006756374, 0.4028019501,
  0.4083924682, 0.4176833501, 0.4341889575]);
  sigma01[N01] := GAMMA(ln(3)/ln(2)+1)*0.4341889575:
                               ShagT := 1.10^{-6}
                                 N005 := 167
                                  N01 := 96
\sigma 005 := [0., 0.002420572187, 0.004505649768, 0.006033915680, 0.008009964297,
   0.01522061695, 0.02034947350, 0.02496587900, 0.02639556907, 0.02988056750,
   0.03693305419, 0.03899799037, 0.04675582316, 0.04736864278, 0.04867799105,
   0.04966133805, 0.05465689070, 0.05610976768, 0.06992029336, 0.07105481803,
   0.07390128616, 0.07534784613, 0.07572306028, 0.08858756297, 0.08992465556,
   0.09254551590, 0.09449245547, 0.09480789413, 0.09913023409, 0.1037302365,
   0.1047991233, 0.1087178127, 0.1157964751, 0.1163888795, 0.1176719392,
   0.1187437034, 0.1247213779, 0.1258180461, 0.1268559013, 0.1275410834,
   0.1346019863, 0.1352764083, 0.1377076684, 0.1383049104, 0.1390107293,
   0.1392203477, 0.1431047040, 0.1442880746, 0.1470596469, 0.1476778228,
   0.1554659239, 0.1566744795, 0.1652290036, 0.1662090717, 0.1668494039,
   0.1741117206, 0.1774118615, 0.1789283998, 0.1828338699, 0.1845989346,
   0.1866371214, 0.2123677639, 0.2155737851, 0.2201936237, 0.2246138224,
   0.2262603851, 0.2268354467, 0.2292558300, 0.2307819226, 0.2436568772,
   0.2455714749, 0.2479990400, 0.2499656878, 0.2623600945, 0.2634173012,
   0.2639972618, 0.2688837636, 0.2701272074, 0.2721057712, 0.2798669539,
   0.2829154649, 0.2878031868, 0.2898234043, 0.3027314840, 0.3040958983,
   0.3061628927, 0.3233288115, 0.3257246347, 0.3268922214, 0.3405563033,
   0.3420820789, 0.3471642342, 0.3483471779, 0.3496231272, 0.3580352216,
   0.3599916791, 0.3606421835, 0.3655155496, 0.3674548629, 0.3804490690,
   0.3819054141, 0.3838296575, 0.3856025376, 0.3988633941, 0.4003499979,
   0.4027935516, 0.4054361820, 0.4097376877, 0.4140277766, 0.4158088435,
   0.4169623059, 0.4427984179, 0.4448438853, 0.4460460384, 0.4557804295,
   0.4572029869, 0.4578025244, 0.4602652180, 0.4624191946, 0.4638636211,
```

```
0.4651996726, 0.4730632995, 0.4738341944, 0.4751124305, 0.4761797913,
   0.4810861700, 0.4830214234, 0.4951528477, 0.4974086275, 0.5022687343,
   0.5052792531, 0.5137222479, 0.5167247476, 0.5239719624, 0.5373993870,
   0.5389724240, 0.5412372727, 0.5432030351, 0.5552257302, 0.5558167866,
   0.5572725341, 0.5597328583, 0.5603082749, 0.5621655717, 0.5664383315,
   0.5710414769, 0.5721144519, 0.5748879158, 0.5755015242, 0.5825547399,
   0.5832754634, 0.5840056222, 0.5848125896, 0.5919051216, 0.5938385974,
   0.5944576966, 0.6011329778, 0.6021852492, 0.6047349385, 0.6059080220,
   0.6106413789, 0.6158503326, 0.6229787031, 0.6264388825, 0.6287051963,
   0.6298980585, 0.6310745085]
\sigma 01 := [0., 0.02405249141, 0.02832937851, 0.03275561506, 0.03447422955,
                                                                                       (1)
   0.03621949641, 0.06109208334, 0.06315363113, 0.06489775500, 0.06879779106,
   0.06980640089, 0.07354167390, 0.07511340974, 0.07571957624, 0.07784165211,
   0.07918612443, 0.09333607918, 0.09742809990, 0.1000841287, 0.1043737300,
   0.1089016332, 0.1106391844, 0.1123800711, 0.1390268492, 0.1419260256,
   0.1448356776, 0.1477518138, 0.1751920002, 0.1763637493, 0.1781135358,
   0.1820171891, 0.1835178292, 0.1859381753, 0.1865432922, 0.1951355003,
   0.2042050093, 0.2071555522, 0.2095793694, 0.2116729483, 0.2584751219,
   0.2599874748, 0.2610269223, 0.2624804019, 0.2639327876, 0.2649934798,
   0.2656671571, 0.2729306104, 0.2762839316, 0.2784040052, 0.2808783254,
   0.3276804989, 0.3301043033, 0.3322205877, 0.3335939740, 0.3349996667,
   0.3433548735, 0.3445109219, 0.3459243512, 0.3507759653, 0.3527441701,
   0.3651520848, 0.3661728268, 0.3672114892, 0.3686990343, 0.3701232404,
   0.3838330801, 0.3852928822, 0.3877212235, 0.3899614751, 0.3947095037,
   0.3992461808, 0.4009760469, 0.4027251786, 0.4275805894, 0.4295498449,
   0.4313907744, 0.4346230791, 0.4375070649, 0.4657093551, 0.4684113369,
   0.4735466542, 0.4774060040, 0.4968136023, 0.4982864751, 0.4988675300,
   0.5012983091, 0.5033787307, 0.5501809042, 0.5526047086, 0.5550509637,
   0.5579627415, 0.5664128438, 0.5694186937, 0.5773216979, 0.5904557004,
   0.6137887588]
> with(Statistics):
  LinearInterpol:=proc(A)
               option remember:
               local N,i,eq,Ahelp:
               Ahelp:=A:
               N:=Count(Ahelp)[1];
               for i from 1 to N-1 do
                            eq[i] := (A[i+1,2]-A[i,2]) / (A[i+1,1]-A[i,1]) *
  (xxx-A[i,1])+A[i,2]:
               od:
               Matrix([[seq(xxx)=A[i,1]] and xxx<=A[i+1,1], i = 1...
  N-1)], [seq(eq[i],i=1..N-1)]):
```

```
piecewise(seq(i, i in %)):
     end proc:
     PowInterpol:=proc(a, LocalLestnica)
                                   local i,N:
                                   local X, b, AA, StupenPow:
                                   option remember;
                                   N:=numelems(LocalLestnica):
     #
                                   X[1]:=LocalLestnica[1,1]:
                                   for i from 2 to N do
                                                                 X[i]:=LocalLestnica[i,1]:
                                                                 b[i]:=LocalLestnica[i,2]/(X[i])^a:
                                   end do:
                                   print(LocalLestnica[1,2],LocalLestnica[1,1]);
                                   AA := evalf[5] (Matrix([[x \ge 0 and x \le X[3], seq(x \ge X[i])
     and x \le X[i+1], i = 3 ... N-1), [seq(b[i]*x^a,i=2..N-1)])):
                                   StupenPow:=piecewise(seq(i, i in AA)):
                                   StupenPow;
     end proc:
     MeasureLinearKoxa005:=subs(x=xxx,LinearInterpol([[0,0],seq(
      [SubdivizionTrue005[j], sigma005[j]], j=2..N005)])):
     MeasureLinearKoxa01:=subs(x=xxx,LinearInterpol([[0,0],seq(
      [SubdivizionTrue01[j], sigma01[j]], j=2..N01)])):
     eq01:=evalf(int((a*x^(ln(4)/ln(3)))-MeasureLinearKoxa01)^2,x=0..1)
     eq001:=evalf(int((a*x^(ln(4)/ln(3)))-MeasureLinearKoxa001)^2,x=0.
     minimize(eq01, a = 0 .. 1, location);
     minimize(eq001, a = 0 .. 1, location);
Warning, computation interrupted
                                                                             eq01, { [Ø, eq01 ]}
minimize (0.2837910731 a^2 - 0.8842282179 Measure Linear Koxa 001 a^2 - 0.8842282179 Measure Linear Mea
                                                                                                                                                                                                          (2)
         + MeasureLinearKoxa001^2, a = 0..1, location), \varnothing
```

```
0.0005685074739, {[{a = 0.4628219337}, 0.0005685074739]}
                                                                      (3)
> FractalDerivModelText005:=textplot([0.63, 0.29, ('typeset')(gamma
  [0.05](F,0,x)), 'font' = ["Verdana", bold, 14]], 'align' = 'left',
  color=blue):
  FractalDerivModelText01:=textplot([0.92, 0.33, ('typeset') (gamma
  [0.1](F,0,x)), 'font' = ["Verdana", bold, 14]], 'align' = 'left',
  color=red):
  PowerLawModelText:=textplot([0.4, 0.1, ('typeset')("M(x)"), 'font'
  = ["Verdana", bold, 14]], 'align' = 'left', color=black):
  MassCurva005:=plot([0.6310745085*x^{(ln(4)/ln(3))},subs(xxx=x,
  LinearInterpol([[0,0],seq([SubdivizionTrue005[j],sigma005[j]],j=
  2..N005)]))],x=SubdivizionTrue005[1]..SubdivizionTrue005
  [N005],labels=[x," "],linestyle = [solid, longdash],legendstyle
  = [font = ["ROMAN", 13], location = bottom], labelfont = ["ROMAN",
  15], labelfont = ["Verdana", bold, 14], color=[black, blue]):
  MassCurva01:=plot([0.6137887588*x^(ln(4)/ln(3)),subs(xxx=x,
  LinearInterpol([[0,0],seq([SubdivizionTrue01[j],siqma01[j]],j=2...
  N01)]))],x=SubdivizionTrue01[1]..SubdivizionTrue01[N01],labels=
  [x," "],linestyle = [solid, longdash],legendstyle = [font =
  ["ROMAN", 13], location = bottom], labelfont = ["ROMAN",
  15], labelfont = ["Verdana", bold, 14], color=[green, red]):
  evalf(sigma01[N01]);
  \#plot(abs(0.6137887588*x^{(ln(4)/ln(3))}-LinearInterpol([[0,0],seq(
  [SubdivizionTrue01[j], sigma01[j]], j=2..N01)])), x=0..1);
  \#plot(abs(0.6310745085*x^{(ln(4)/ln(3))}-LinearInterpol([[0,0],seq(
  [SubdivizionTrue005[j], sigma005[j]], j=2..N005)])), x=0..1);
  display(FractalDerivModelText005,FractalDerivModelText01,
  PowerLawModelText,MassCurva01,MassCurva005);
```

0.6137887588



```
xS0:=0;
          for k from 0 to N do
                     S[k] := k/N;
          end do:
          Urav:=subs(t=T,(D*diff(F,s)*t/(m*sig)))^(1/D):
          for i from 0 to N do
                     x[i]:=subs(s=S[i],Urav);
          end do;
          print("sssa");
          if withOrNotPalka=1 then
                     SmaxNotTrue:=subs(solve({diff(Urav,s)=0,
s>0, s<=1, s), s):
                     xFr:=subs(s=SmaxNotTrue,Urav):
                     RaznicaIntForFront:=1:
                     i:=0:
                     while RaznicaIntForFront>0.001 do
                               i:=i+1:
                               xFr := xFr - 0.002:
                               Sfr1:=fsolve(xFr=Urav,s,0...
SmaxNotTrue);
                               Sfr2:=fsolve(xFr=Urav,s,
SmaxNotTrue..1);
                               RaznicaIntForFront:=abs(evalf(Int
(xFr-Urav, s=0..Sfr1, epsilon =0.0001))-evalf(Int(Urav-xFr, s=
Sfr1..Sfr2,epsilon =0.0001)));
                     end do:
                     k := N :
                     while S[k]>Sfr2 do
                               x[k] := subs(s=S[k], Urav);
                               k := k-1:
                     end do;
                     for i from 0 to k do
                               x[i] := xFr:
                     end do;
          fi:
          [seq(x[kk],kk=0..N)];
end proc:
```

```
N := 1000:
solverBakleyLeverettFractalDeriv:=proc(T,SubdivizionTrue,sigma,
withOrNotPalka)
          local Nsubdivizion,m,mu,F ,s,InvSigma,S,x,t,xS0,i,k,
xFrontFractal, kkk, Urav, SmaxNotTrue, xFr, RaznicaIntForFront, Sfr1,
Sfr2,z,ss,xx;
          global N,SS;
          Nsubdivizion:=numelems(SubdivizionTrue):
          m := 0.7:
          mu[0] := 0.4;
          F := s^2/(s^2+mu[0]*(1-s)^2);
          InvSigma:=evalf(LinearInterpol([[0,0],seq([sigma[j],
SubdivizionTrue[j]], j=2..Nsubdivizion)])):
          xS0:=0;
          for k from 0 to N do
                    S[k] := evalf(k/N);
          end do:
          Urav:=subs(xxx=(diff(F ,s)*T/m),InvSigma);
          for i from 0 to N do
                    x[i]:=subs(s=S[i],Urav);
          end do;
          if withOrNotPalka=1 then
  (
         )
                    SmaxNotTrue:=fsolve(diff(Urav,s)=0,s,0.1..1):
                    xFr:=eval(Urav,s=SmaxNotTrue): print(%);
                    RaznicaIntForFront:=1:
                    i := 0:
                    while RaznicaIntForFront>0.001 do
                               i:=i+1:
                               xFr := xFr - 0.002:
                               Sfr1:=fsolve(xFr=Urav,s,0..
SmaxNotTrue);
                               Sfr2:=fsolve(xFr=Urav,s,
SmaxNotTrue..1);
```

```
RaznicaIntForFront:=0:
                                   for k from 0 to N-1 do
                                              if S[k] <= Sfr1 then
    RaznicaIntForFront:=RaznicaIntForFront+eval(xFr-Urav,s=S[k])*(S
    [k+1]-S[k]):
                                              fi:
                                              if S[k]>Sfr1 and S[k]<=
    Sfr2 then
    RaznicaIntForFront:=RaznicaIntForFront-eval(Urav-xFr,s=S[k])*(S
    [k+1]-S[k]:
                                              fi:
                                   od:
                         end do:
                         k := N :
                         while S[k]>Sfr2 do
                                   x[k] := subs(s=S[k], Urav);
                                   k := k-1:
                         end do;
                         for i from 0 to k do
                                   x[i] := xFr:
                         end do;
              fi:
    [[seq(x[kk],kk=0..N)],xFr];
    end proc:
> Dkocha:=ln(4)/ln(3):
  ----- 0.1
  TT:=0.05:
  SolFractal01 005:=solverBakleyLeverettFractalDeriv(TT,
  SubdivizionTrue01, sigma01):
  sig01 005:=Dkocha*%[2]^(-Dkocha)*eval(MeasureLinearKoxa01,xxx=%
  [21):
  SolPower01 005:=evalf(solverBakleyLeverett(TT,Dkocha,%)):
  print("fuc\overline{k}"):
  TT := 0.1:
  SolFractalO1 01:=solverBakleyLeverettFractalDeriv(TT,
  SubdivizionTrue01, sigma01):
  print("fuck"):
  sig01 01:=Dkocha*%[2]^(-Dkocha)*eval(MeasureLinearKoxa01,xxx=%[2]
  SolPower01 04:=evalf(solverBakleyLeverett(TT,Dkocha,%)):
  print("fuc\overline{k}"):
```

```
TT:=0.15:
SolFractal01 015:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue01, sigma01):
siq01 015:=Dkocha*%[2]^(-Dkocha) *eval(MeasureLinearKoxa01,xxx=%
SolPower01 015:=evalf(solverBakleyLeverett(TT,Dkocha,%)):
print("fuc\overline{k}"):
TT := 0.2:
SolFractal01 02:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue01, sigma01):
sig01 02:=Dkocha*%[2]^(-Dkocha)*eval(MeasureLinearKoxa01,xxx=%[2]
SolPower01 02:=evalf(solverBakleyLeverett(TT,Dkocha,%)):
print("big fuck"):
----- 0.05
TT:=0.05:
SolFractal005 005:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue005, sigma005):
sig01 005:=Dkocha*%[2]^(-Dkocha) *eval (MeasureLinearKoxa005,xxx=%
[2]):
SolPower005 005:=evalf(solverBakleyLeverett(TT,Dkocha,%)):
print("fuck"):
TT := 0.1:
SolFractal005 01:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue005, sigma005):
print("fuck"):
sig005 01:=Dkocha*%[2]^(-Dkocha) *eval (MeasureLinearKoxa005,xxx=%
[2]):
SolPower005 04:=evalf(solverBakleyLeverett(TT,Dkocha,%)):
print("fuck"):
TT := 0.15:
SolFractal005 015:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue005, sigma005):
sig01 015:=Dkocha*%[2]^(-Dkocha) *eval (MeasureLinearKoxa005,xxx=%
[2]):
SolPower005 015:=evalf(solverBakleyLeverett(TT,Dkocha,%)):
print("fuck"):
TT:=0.2:
SolFractal005 02:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue005, sigma005):
sig01 02:=Dkocha*%[2]^(-Dkocha)*eval(MeasureLinearKoxa005,xxx=%
[2]):
SolPower005 02:=evalf(solverBakleyLeverett(TT,Dkocha,%)):
print("very big fuck"):
```

```
0.2343911661
                                  "fuck"
                               0.5034945209
                                  "fuck"
                                  "fuck"
                               0.7634850328
                                  "fuck"
                               0.9984998775
                                 "big fuck"
                               0.2374438925
                                  "fuck"
                               0.4850058299
                                  "fuck"
                                  "fuck"
                               0.7343867321
                                  "fuck"
                               0.9742952233
                               "very big fuck"
                                                                             (4)
  Dkocha:=ln(4)/ln(3):
  TT:=0.05:
  SolFractal01 005:=solverBakleyLeverettFractalDeriv(TT,
  SubdivizionTrue01, sigma01,1):
  sig01 005:=Dkocha*%[2]^(-Dkocha) *eval(MeasureLinearKoxa01,xxx=%
  [2]);
  SolPower01 005:=evalf(solverBakleyLeverett(TT,Dkocha,%,0)):
  SolFractal 01 005:=solverBakleyLeverettFractalDeriv(TT,
  SubdivizionTrue01, sigma01,0):
  print("fuck"):
  writedata(WithoutStickOutSolFractal01 005, SolFractal01 005[1],
  writedata(WithoutStickOutSolPower01 005, SolPower01 005, float):
                               0.2343911661
                                                      2 \ln(2)
              sig01\_005 := \frac{0.2086532502 \ln(2) \ 0.1523911661}{0.1523911661}
                                                       ln(3)
                                        ln(3)
                                  "sssa"
                                  "fuck"
                                                                             (5)
> SolPower01 005[2]
                              0.001698581619
                                                                             (6)
> writedata(OutSolFractalO1_005, SolFractalO1_005[1], float):
  writedata(OutSolFractal01 01, SolFractal01 01[1], float):
  writedata(OutSolFractal01 015, SolFractal01 015[1], float):
  writedata(OutSolFractal01 02, SolFractal01 02[1], float):
```

```
writedata(OutSolPower01 005, SolPower01 005, float):
writedata(OutSolPower01\overline{01}, SolPower01\overline{04}, float):
writedata(OutSolPower01 015, SolPower01 015, float):
writedata(OutSolPower01 02, SolPower01 02, float):
writedata(OutSolFractal005 005, SolFractal005 005[1], float):
writedata(OutSolFractal005 01, SolFractal005 01[1], float):
writedata(OutSolFractal005 015, SolFractal005 015[1], float):
writedata(OutSolFractal005 02, SolFractal005 02[1], float):
writedata(OutSolPower005 005, SolPower005 005, float):
writedata(OutSolPower005_01, SolPower005_04, float):
writedata (OutSolPower005 015, SolPower005 015, float):
writedata(OutSolPower005 \overline{02}, SolPower005 \overline{02}, float):
Dkocha:=ln(4)/ln(3):
Wrongsig005:=evalf(Dkocha*eval(MeasureLinearKoxa005,xxx=1));
----- 0 . 0 5
TT:=0.05:
WrongSolFractal005 005:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue005, sigma005):
WrongSolPower005 005:=evalf(solverBakleyLeverett(TT,Dkocha,
Wrongsig005)):
print("fuck"):
TT := 0.1:
WrongSolFractal005 01:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue005, sigma005):
WrongSolPower005 01:=evalf(solverBakleyLeverett(TT,Dkocha,
Wrongsig005)):
print("fuck"):
TT:=0.15:
WrongSolFractal005 015:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue005, sigma005):
WrongSolPower005 015:=evalf(solverBakleyLeverett(TT,Dkocha,
Wrongsig005)):
print("fuck"):
TT := 0.2:
WrongSolFractal005 02:=solverBakleyLeverettFractalDeriv(TT,
SubdivizionTrue005, sigma005):
WrongSolPower005 02:=evalf(solverBakleyLeverett(TT,Dkocha,
Wrongsig005)):
print("very big fuck"):
                     Wrongsig005 := 0.7963273680
                          0.2374438925
```

"fuck"

```
0.4850058299
                                 "fuck"
                              0.7343867321
                                 "fuck"
                              0.9742952233
                             "very big fuck"
                                                                            (7)
writedata(WrongOutSolFractal005 005, WrongSolFractal005 005[1],
writedata(WrongOutSolFractal005 01, WrongSolFractal005 01[1],
float):
writedata(WrongOutSolFractal005 015, WrongSolFractal005 015[1],
writedata(WrongOutSolFractal005 02, WrongSolFractal005 02[1],
float):
writedata(WrongOutSolPower005_005, WrongSolPower005_005, float):
writedata(WrongOutSolPower005_01, WrongSolPower005_01, float):
writedata(WrongOutSolPower005_015, WrongSolPower005_015, float):
writedata(WrongOutSolPower005 02, WrongSolPower005 02, float):
```