```
K = 6;
L = 6;
M = 6;
KLM = Max[K, L, M];
Array[h, K + 1, 0];
Array[b, L + 1, 0];
Array[g, M+1, 0];
H1 = Sum[h[Abs[i]] * x^{(i+KLM)}, {i, 0, K, 3}] +
    Sum[h[Abs[i]] * x^(i + KLM), {i, -3, -K, -3}];
H2 = Sum[h[Abs[i]] * x^{(i+KLM)}, {i, 2, K, 3}] +
    Sum[h[Abs[i]] * x^{(i+KLM)}, {i, -1, -K, -3}];
H3 = Sum[h[Abs[i]] * x^{(i+KLM)}, {i, 1, K, 3}] +
    Sum[h[Abs[i]] * x^{(i+KLM)}, {i, -2, -K, -3}];
B1 = -Sum[b[Abs[i]] * x^{(i+KLM)}, {i, 0, L, 3}] +
    Sum[b[Abs[i]] * x^{(i+KLM)}, {i, -3, -L, -3}];
B2 = -Sum[b[Abs[i]] * x^{(i+KLM)}, {i, 2, L, 3}] +
    Sum[b[Abs[i]] * x^(i + KLM), {i, -1, -L, -3}];
B3 = -Sum[b[Abs[i]] * x^{(i+KLM)}, {i, 1, L, 3}] +
    Sum[b[Abs[i]] * x^{(i+KLM)}, {i, -2, -L, -3}];
G1 = Sum[g[Abs[i]] * x^{(i+KLM)}, {i, 0, M, 3}] +
    Sum[g[Abs[i]] * x^{(i+KLM)}, {i, -3, -M, -3}];
G2 = Sum[g[Abs[i]] * x^{(i+KLM)}, {i, 2, M, 3}] +
    Sum[g[Abs[i]] * x^{(i+KLM)}, {i, -1, -M, -3}];
G3 = Sum[g[Abs[i]] * x^{(i+KLM)}, {i, 1, M, 3}] +
    Sum[g[Abs[i]] * x^(i + KLM), {i, -2, -M, -3}];
HGDet = {{H1, B1, G1}, {H2, B2, G2}, {H3, B3, G3}};
f = Det[HGDet];
ff = CoefficientList[f, x];
HGDetH = {{1, B1, G1}, {1, B2, G2}, {1, B3, G3}};
fh = Det[HGDetH];
ffh = CoefficientList[fh, x];
Length[ffh];
\mathsf{HGDetB} = \{\{\mathsf{H1}, 1, \mathsf{G1}\}, \{\mathsf{H2}, 1, \mathsf{G2}\}, \{\mathsf{H3}, 1, \mathsf{G3}\}\};
fb = Det[HGDetB];
ffb = CoefficientList[fb, x];
HGDetG = {{H1, B1, 1}, {H2, B2, 1}, {H3, B3, 1}};
fg = Det[HGDetG];
ffg = CoefficientList[fg, x];
K1 = Length[ffh] / 2 - 1;
Array[kh, K1 + 1, 0];
For[i = K1 + 1; j = Length[ffh], i > 0, i--; j--, kh[i-1] = -ffh[[j]]];
M1 = Length[ffg]/2-1;
Array[kg, M1 + 1, 0];
For[i = M1 + 1; j = Length[ffg], i > 0, i--; j--, kg[i-1] = -ffg[[j]]];
```

```
L1 = Length[ffb] /2 - 1;
Array[kb, L1 + 1, 0];
For[i = L1 + 1; j = Length[ffb], i > 0, i - -; j - -, kb[i - 1] = -ffb[[j]]];
Print["(K, L, M) = (", K, ", ", L, ", ",
M, ") (", 2 * K + 1, ", ", 2 * L + 1, ", ", 2 * M + 1, ")"]
Print["(K1, L1, M1) = (", K1, ", ", L1, ", ", M1,
 ") (", 2 * K1 + 1, ", ", 2 * L1 + 1, ", ", 2 * M1 + 1, ")"]
Print["Длина детерминанта - ", Length[ff]]
Print["Середина детерминанта, равная 1, - ", Length[ff] /2-2]
Print["Количество уравнений - ", K + L + M + 3]
(K, L, M) = (6, 6, 6) (13, 13, 13)
(K1, L1, M1) = (11, 11, 11) (23, 23, 23)
Длина детерминанта - 34
Середина детерминанта, равная 1, - 15
Количество уравнений - 21
```

```
s = 2^{(2/3)};
aa = 0.07;
NSLv = NSolve[{
    b[0] = 0,
    ff[[Length[ff]]] == 0,
    ff[[Length[ff] - 3]] = 0,
     ff[[Length[ff] - 6]] == 0,
     ff[[Length[ff] - 9]] = 0,
     ff[[Length[ff] - 12]] == 0,
     ff[[Length[ff] - 15]] == -1,
     Sum[h[Abs[i]] * (-1) ^i, {i, -K, K}] = 0,
     (*Sum[g[Abs[i]],{i,-M,M}]==0,*)
     Sum[kh[Abs[i]], {i, -K1, K1}] == s,
     Sum[kh[Abs[i]] * (-1) ^i, {i, -K1, K1}] = 0,
     Sum[kg[Abs[i]], {i, -M1, M1}] = 0,
     Sum[kg[Abs[i]] * (-1) ^i, {i, -M1, M1}] == s,
    Sum[i^2 * kh[i], {i, 1, K1}] = 0,
     Sum[i^4 * kh[i], {i, 1, K1}] = 0,
     Sum[i^2 + kh[i] + (-1)^(i-1), \{i, 1, K1\}] = 0,
     Sum[i^4 + kh[i] + (-1)^(i-1), \{i, 1, K1\}] = 0,
    Sum[i^2 * kg[i], {i, 1, M1}] = 0,
     Sum[i^2 + kg[i] * (-1)^(i-1), {i, 1, M1}] = 0,
     Sum[i * kb[i], {i, 1, L1}] = 0,
     (*Sum[i^3*kb[i],{i,1,L1}]==0,*)
     Sum[i * kb[i] * (-1)^{(i-1)}, {i, 1, L1}] = 0,
     (*Sum[i*kb[i]*Cos[Pi*i*0.65],{i,1,L1}]==0,*)
     (*Sum[kb[i]*Sin[Pi*i*0.7],{i,1,L1}] = s/2,*)
     (h[0] * g[0] + 2 * h[1] * g[1])^2 -
       aa^2 * Sum[h[Abs[i]]^2, {i, -K, K}] * Sum[g[Abs[i]]^2, {i, -M, M}] == 0
   }(*,Reals*)];
Print["Количество решений - ", Length[NSLv]]
Количество решений - 44
```

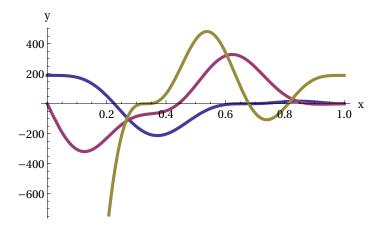
```
ph = 100 * (h[0] + 2 * Sum[h[i] * Cos[Pi * i * x], {i, 1, K}]);
pb = 100 * 2 * Sum[b[i] * Sin[Pi * i * x], {i, 1, L}];
pg = 100 * (g[0] + 2 * Sum[g[i] * Cos[Pi * i * x], {i, 1, M}]);
pkh = 100 * (kh[0] + 2 * Sum[kh[i] * Cos[Pi * i * x], {i, 1, K1}]);
pkb = 100 * 2 * Sum[kb[i] * Sin[Pi * i * x], {i, 1, L1}];
pkg = 100 * (kg[0] + 2 * Sum[kg[i] * Cos[Pi * i * x], {i, 1, M1}]);
pkhh = ph * pkh / 300;
pkbb = pb * pkb / 300;
pkgg = pg * pkg / 300;
Do[Print[kk];
 ssh = Sqrt[Sum[(h[Abs[i]] /. NSLv[[kk]])^2, {i, -K, K}]];
 ssb = Sqrt[Sum[(b[Abs[i]] /. NSLv[[kk]])^2, {i, -L, L}]];
 ssg = Sqrt[Sum[(g[Abs[i]] /. NSLv[[kk]])^2, {i, -M, M}]];
 Print[((h[0] /. NSLv[[kk]]) * (g[0] /. NSLv[[kk]]) +
     2 * (h[1] /. NSLv[[kk]]) * (g[1] /. NSLv[[kk]])) / (ssh * ssg)];
 Print[Sum[(h[i] /. NSLv[[kk]])^2, {i, 2, K}]/
   ((h[0] /. NSLv[[kk]]) ^2 + 2 * (h[1] /. NSLv[[kk]]) ^2)];
 Print[Sum[(b[i] /. NSLv[[kk]])^2, {i, 2, L}]/
   ((b[0] /. NSLv[[kk]]) ^2 + 2 * (b[1] /. NSLv[[kk]]) ^2)];
 Print[Sum[(g[i] /. NSLv[[kk]])^2, {i, 2, M}]/
   ((g[0] /. NSLv[[kk]])^2 + 2 * (g[1] /. NSLv[[kk]])^2);
 Print[Plot[{ph /. NSLv[[kk]], pb /. NSLv[[kk]], pg /. NSLv[[kk]]},
   \{x, 0, 1\}, AxesLabel \rightarrow \{"x", "y"\},
   LabelStyle → Directive[FontFamily → "Times", FontSize → 12],
   PlotStyle → {Thickness[0.01]}, ImageSize → Medium],
  Plot[{pkh /. NSLv[[kk]], pkb /. NSLv[[kk]], pkg /. NSLv[[kk]]},
   \{x, 0, 1\}, AxesLabel \rightarrow \{"x", "y"\},
   LabelStyle → Directive[FontFamily → "Times", FontSize → 12],
   PlotStyle → {Thickness[0.01]}, ImageSize → Medium]], {kk, Length[NSLv]}
(*kk=14;
Plot[{ph/.NSLv[[kk]],pb/.NSLv[[kk]],pg/.NSLv[[kk]]},{x,0,1},AxesLabel\rightarrow{"x","y"},
  LabelStyle→Directive[FontFamily→"Times",FontSize→12],
  PlotStyle→{Thickness[0.01]}]
 Plot[{pkh/.NSLv[[kk]],pkb/.NSLv[[kk]],pkg/.NSLv[[kk]]},
  {x,0,1},AxesLabel→{"x","y"},
  LabelStyle→Directive[FontFamily→"Times",FontSize→12],
  PlotStyle→{Thickness[0.01]}]
 Plot[{pkhh/.NSLv[[kk]],pkbb/.NSLv[[kk]],pkgg/.NSLv[[kk]],
   (pkhh+pkbb+pkgg)/.NSLv[[kk]]},{x,0,1},AxesLabel→{"x","y"},
  LabelStyle→Directive[FontFamily→"Times",FontSize→12],
  PlotStyle→{Thickness[0.01]} | *)
```

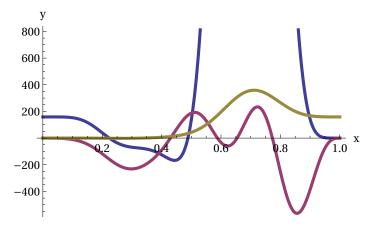
 $-\, 0\, \boldsymbol{.}\, 07$

13.5489

7.92563

0.521569



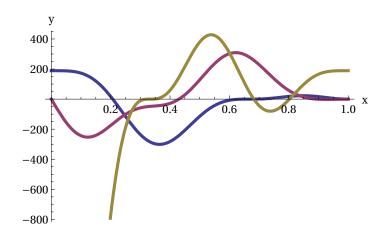


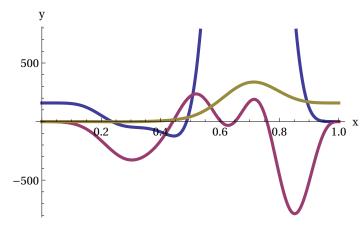
2

0.07

9.07683

3.90701

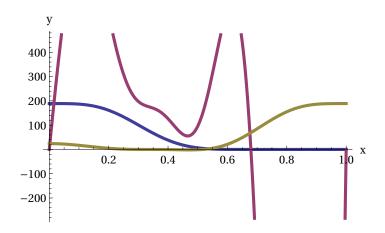


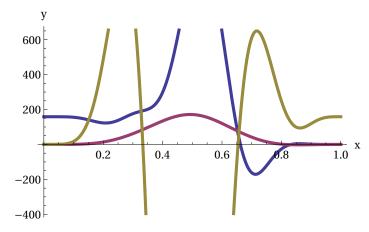


 $-\, 0\, \boldsymbol{.}\, 07$

0.0687303

11.6325



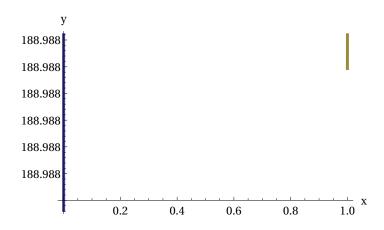


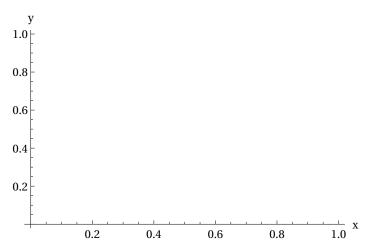
 $-0.07 - 5.82029 \times 10^{-14}$ i

0.0788166 - 0.005875 i

-0.245668 - 5.45293 i

0.0644584 + 0.00986061 i

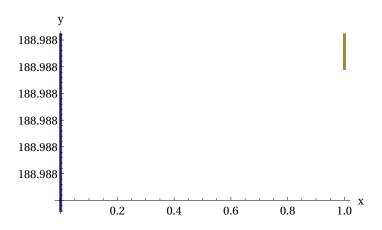


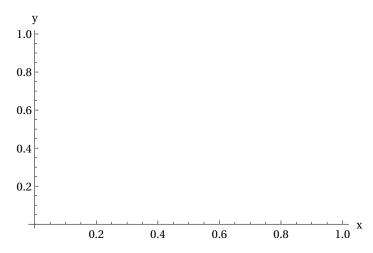


$$-0.07 + 5.82029 \times 10^{-14}$$
 i

$$-0.245668 + 5.45293 i$$

^{0.0644584 - 0.00986061} i

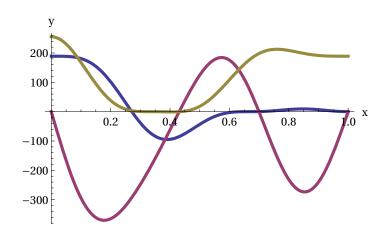


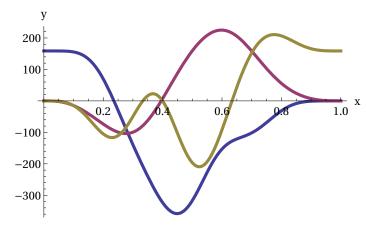


0.07

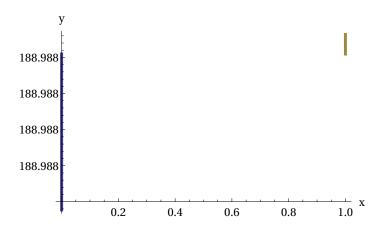
1.25458

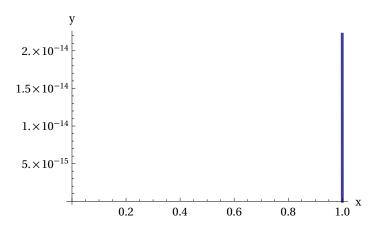
4.21551





- 0.07 1.02431 \times 10⁻¹⁴ i
- 0.685413 0.135149 i
- 8.67578 + 10.3224 i
- 0.170606 0.00593296 i



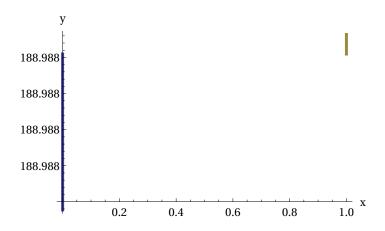


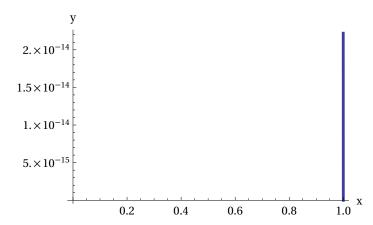
 $\texttt{0.07} \, + \texttt{1.02431} \times \texttt{10}^{-14} \, \, \text{i}$

0.685413 + 0.135149 i

8.67578 - 10.3224 i

0.170606 + 0.00593296 i

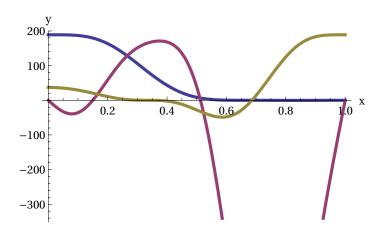


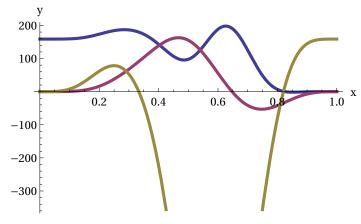


 $-\, 0\, \boldsymbol{.}\, 07$

0.061965

1.91341





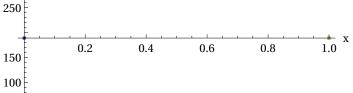
 $-\, 0.07 \, -\, 1.0894 \times 10^{-12} \, \, \dot{\mathbb{1}}$

-0.190102 - 0.124079 i

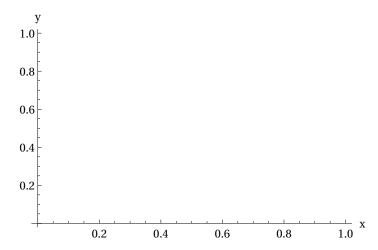
3.87225 + 2.39223 i

0.0620974 - 0.0125445 i

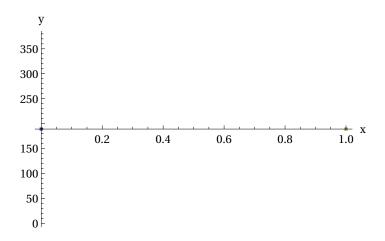


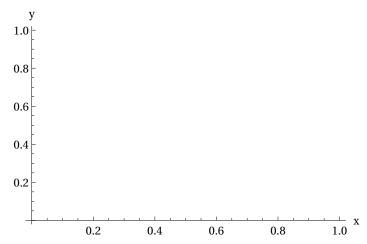






- $-0.07 + 1.0894 \times 10^{-12}$ i
- -0.190102 + 0.124079 i
- 3.87225 2.39223 i
- 0.0620974 + 0.0125445 i

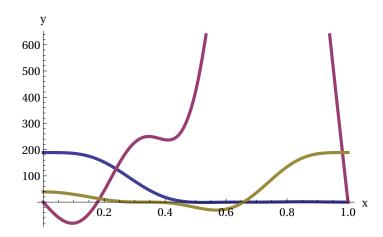


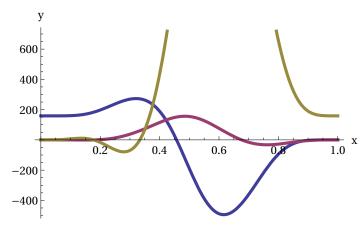


-0.07

0.105667

0.557847



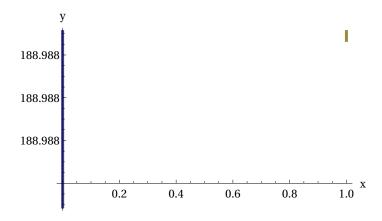


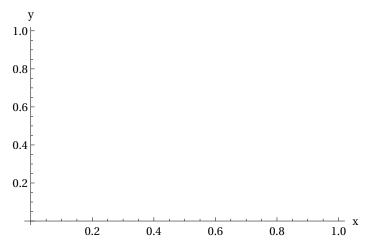
 $0.07 - 6.05765 \times 10^{-14}$ i

0.0613942 + 0.00148622 i

-0.115317 + 2.18647 i

0.56732 - 1.15086 i



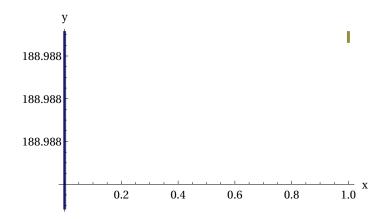


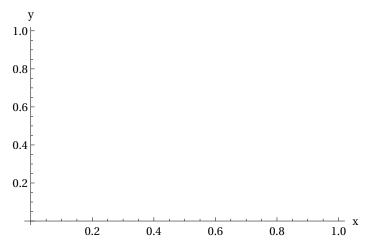
 $0.07 + 6.05765 \times 10^{-14}$ i

0.0613942 - 0.00148622 i

-0.115317 - 2.18647 i

0.56732 + 1.15086 i

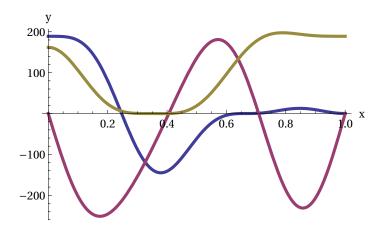


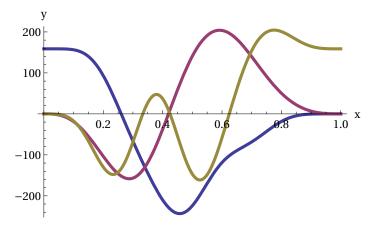


 $-\, \textbf{0.07}$

3.78527

15.3381

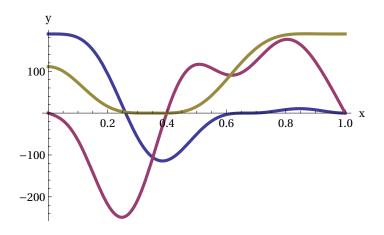


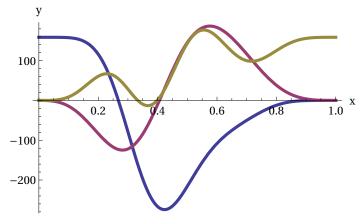


-0.07

1.91585

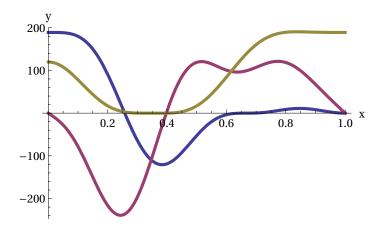
25.6461

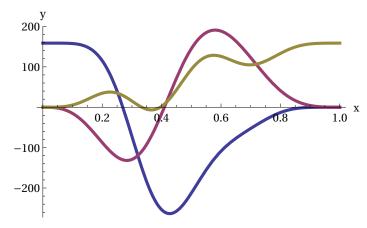




17

- -0.07
- 2.20507
- 48.1282
- 0.112399

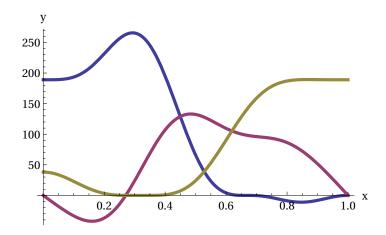


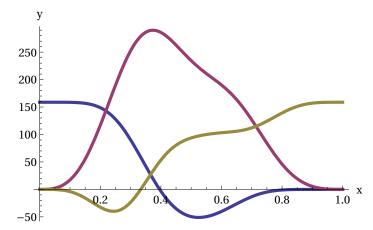


0.07

0.0451775

0.217341



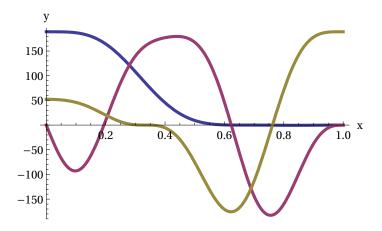


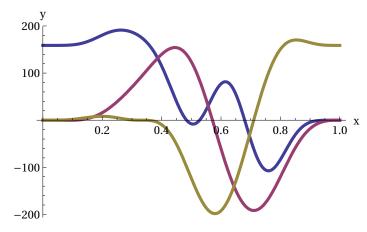
19

 $-\, \textbf{0.07}$

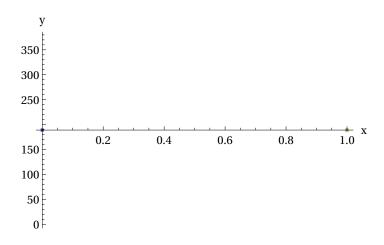
0.059386

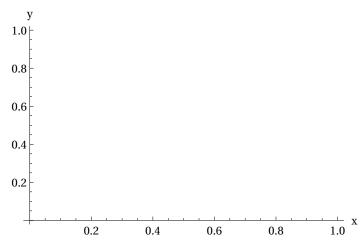
5.10306





- $-0.07 8.39393 \times 10^{-13}$ i
- -0.0256529 0.563979 i
- -2.29479 + 1.84237 i
- 0.0921963 + 0.0113623 i



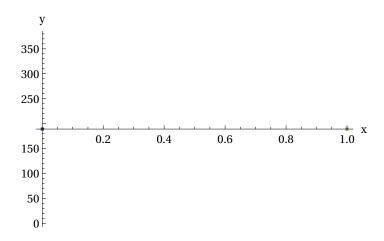


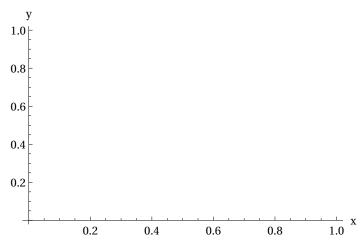
 $-\,0.07\,+\,8.39393\times 10^{-13}\,\,\text{i}$

-0.0256529 + 0.563979 i

-2.29479 - 1.84237 i

0.0921963 - 0.0113623 i



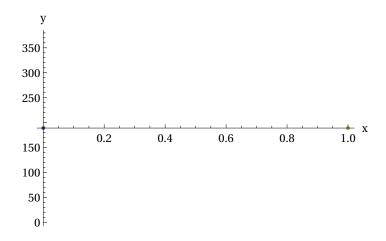


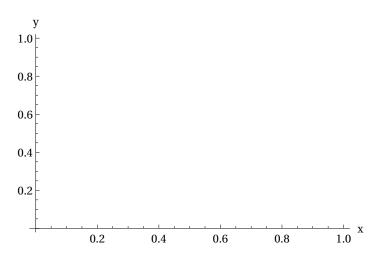
 $0.07 + 1.48014 \times 10^{-12}$ i

-0.150537 - 0.0944375 i

-0.405118 + 0.758541 i

0.069843 + 0.0403826 i



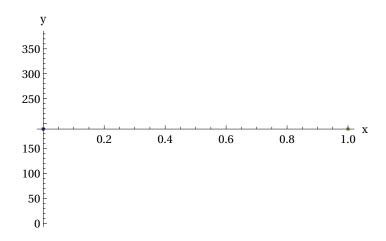


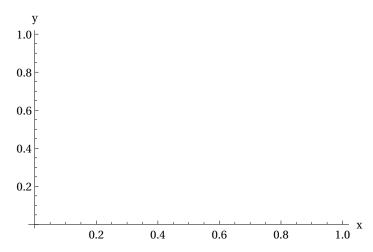
0.07 - 1.48014 \times 10⁻¹² i

-0.150537 + 0.0944375 i

-0.405118 - 0.758541 i

0.069843 - 0.0403826 i

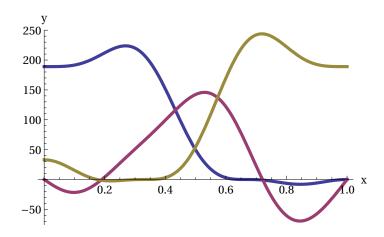


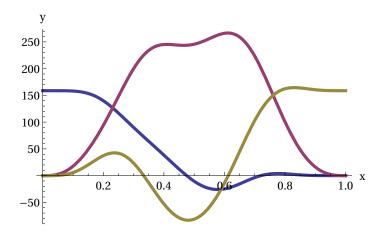


0.07

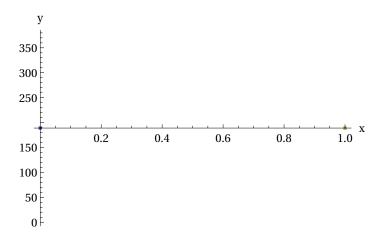
0.0312047

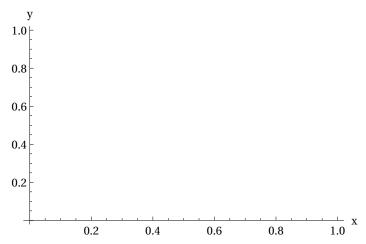
0.603888





- $-\,0.07\,-\,1.81911\times 10^{-11}\,\,\text{i}$
- -0.129118 0.705141 i
- 5.87198 + 3.33206 i
- 0.0530779 0.00416414 i



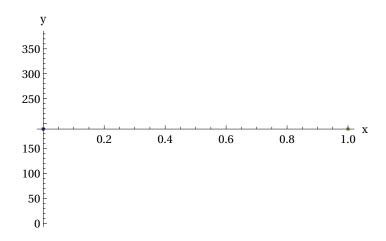


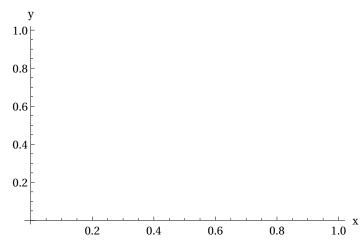
 $-0.07 + 1.81911 \times 10^{-11}$ i

-0.129118 + 0.705141 i

5.87198 - 3.33206 i

0.0530779 + 0.00416414 i



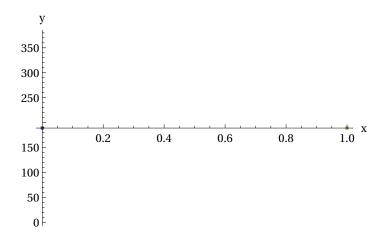


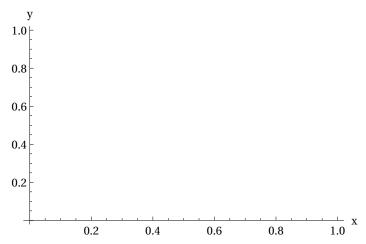
 $0.07 - 2.26662 \times 10^{-13} i$

0.0222128 + 0.0000108068 i

0.163343 - 0.130832 i

0.0249919 - 0.00729187 i



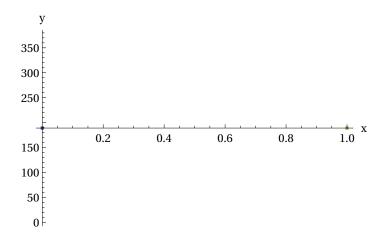


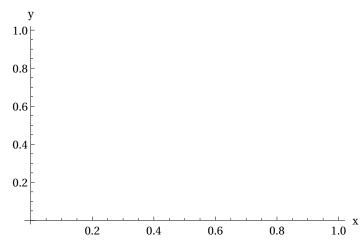
 $0.07 + 2.26662 \times 10^{-13} i$

0.0222128 - 0.0000108068 i

0.163343 + 0.130832 i

0.0249919 + 0.00729187 i



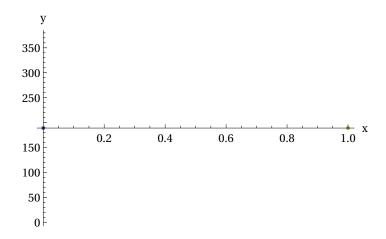


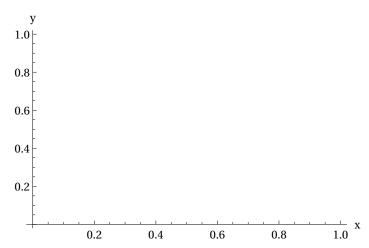
 $\texttt{0.07} \, + \texttt{4.42293} \times \texttt{10}^{-13} \, \, \dot{\texttt{1}}$

0.0694416 - 0.0160248 i

-0.0717171 - 0.65881 i

0.102915 + 0.0467197 i



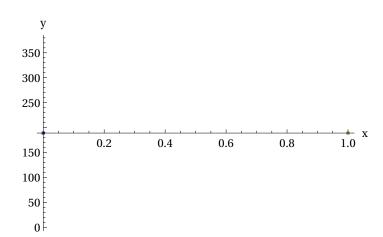


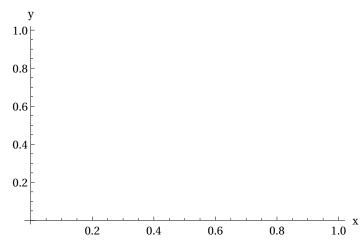
 $\texttt{0.07} - \texttt{4.42293} \times \texttt{10}^{-13} \ \texttt{i}$

0.0694416 + 0.0160248 i

-0.0717171 + 0.65881 i

0.102915 - 0.0467197 i



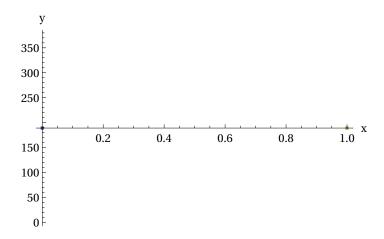


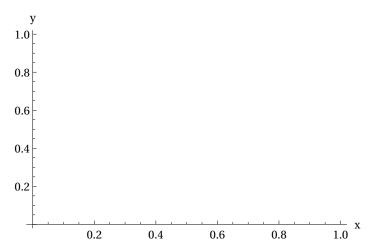
 $\texttt{0.07} \, + \texttt{8.25845} \times \texttt{10}^{-13} \, \, \dot{\texttt{1}}$

0.0526158 - 0.0599561 i

-0.442385 - 0.0923564 i

0.110892 + 0.0743243 i



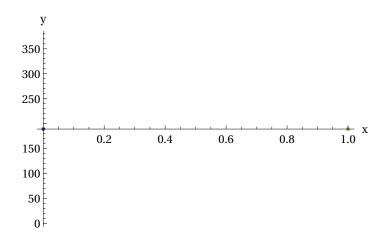


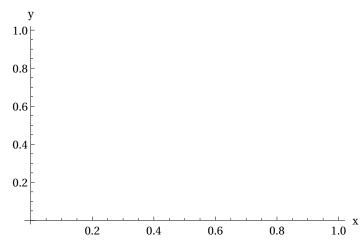
 $\texttt{0.07} - \texttt{8.25845} \times \texttt{10}^{-13} \ \texttt{i}$

0.0526158 + 0.0599561 i

-0.442385 + 0.0923564 i

0.110892 - 0.0743243 i



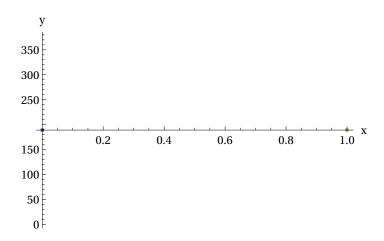


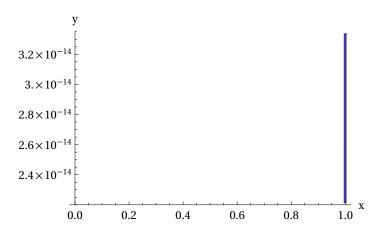
 $\textbf{0.07} - \textbf{1.58931} \times \textbf{10}^{-12} \ \text{i}$

0.0482089 - 0.0168068 i

-1.46514 - 0.384491 i

-0.0430713 + 0.647121 i



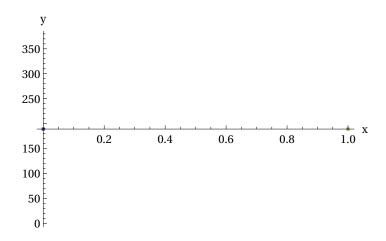


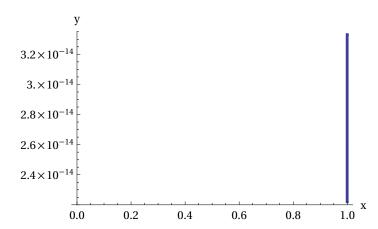
 $0.07 + 1.58931 \times 10^{-12}$ i

0.0482089 + 0.0168068 i

-1.46514 + 0.384491 i

-0.0430713 - 0.647121 i



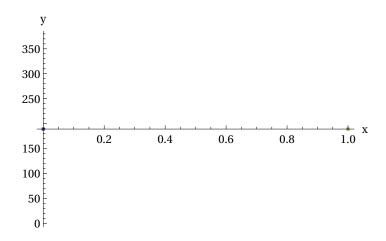


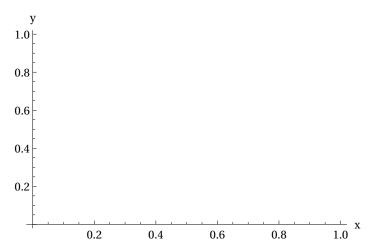
 $-0.07 - 2.4506 \times 10^{-12}$ i

0.0358928 - 0.00853491 i

 $-\, \textbf{0.613509} \, + \, \textbf{0.0535121} \,\, \dot{\mathbb{1}}$

-0.0525564 + 0.25586 i



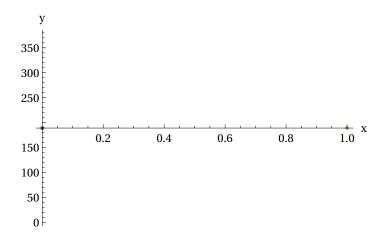


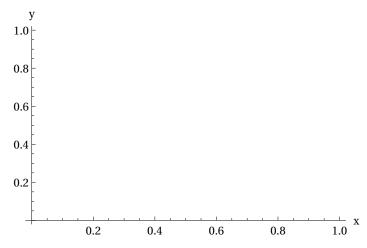
 $-0.07 + 2.4506 \times 10^{-12}$ i

0.0358928 + 0.00853491 i

-0.613509 - 0.0535121 i

-0.0525564 - 0.25586 i

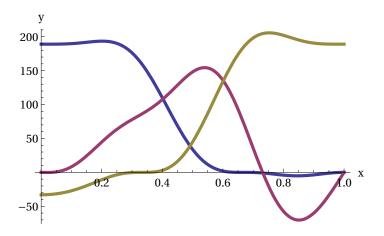


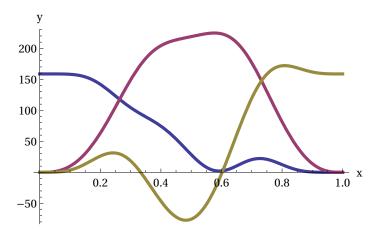


 $-\, \textbf{0.07}$

0.0260546

0.350392



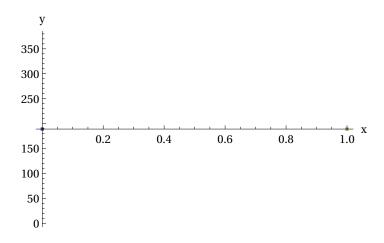


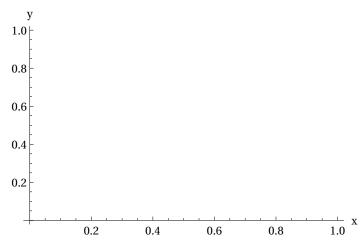
 $-\,0.07\,-\,3.08071\times 10^{-13}\,\,\text{i}$

0.0310963 - 0.00467296 i

-0.0846199 - 0.022407 i

0.0248855 + 0.0519925 i



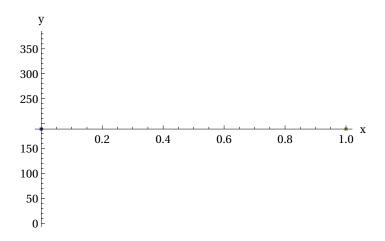


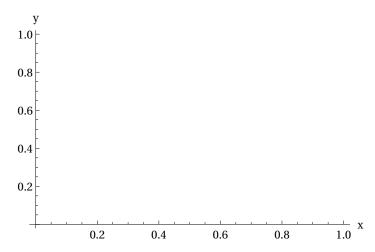
 $-\,0.07\,+\,3.08071\times 10^{-13}\,\,\text{i}$

0.0310963 + 0.00467296 i

-0.0846199 + 0.022407 i

0.0248855 - 0.0519925 i

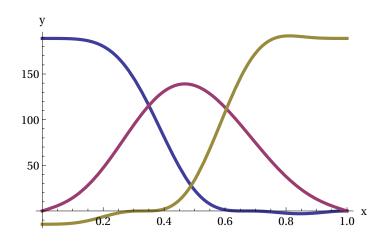


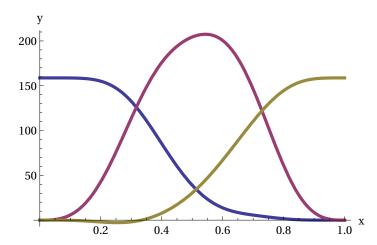


-0.07

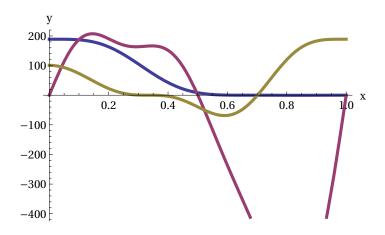
0.0320075

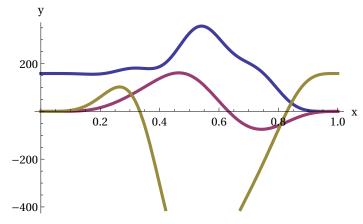
0.0280597





- 41
- 0.07
- 0.0626492
- 5.0914
- 1.02853

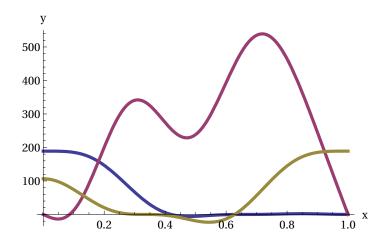


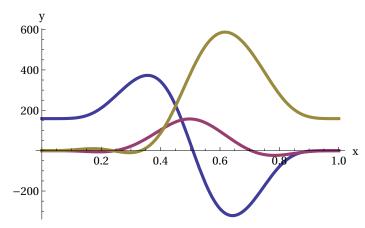


0.07

0.139638

0.0965359



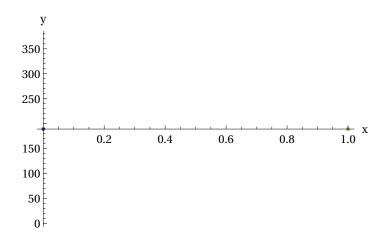


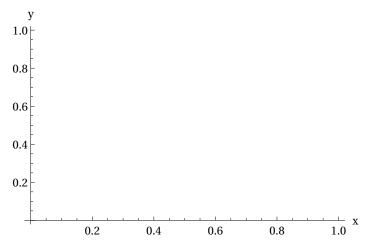
 $-0.07 + 5.51473 \times 10^{-13}$ i

0.0474181 - 0.0610085 i

-1.0131 - 5.79127 i

0.083242 + 0.0171824 i



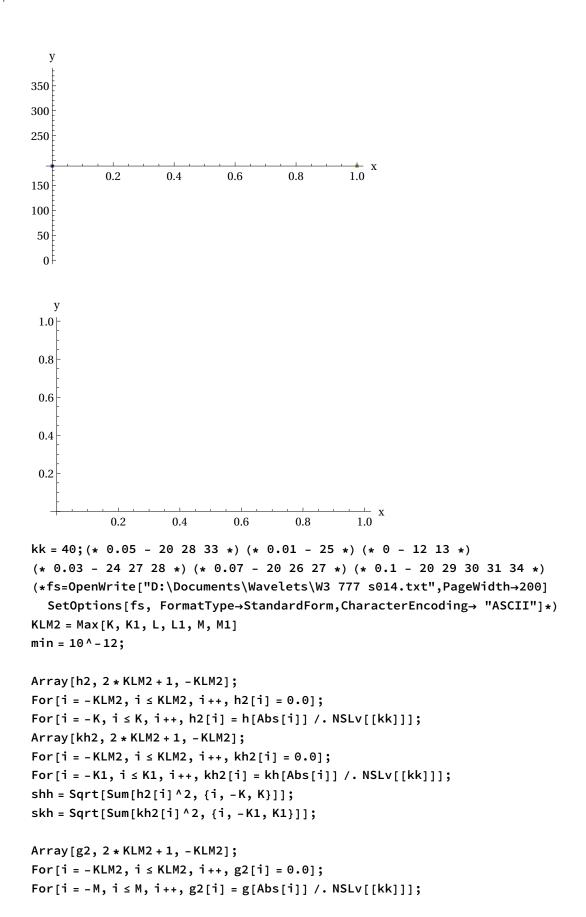


 $-\,0.07\,-\,5.51473\times 10^{-13}\,\,\text{i}$

0.0474181 + 0.0610085 i

-1.0131 + 5.79127 i

0.083242 - 0.0171824 i



+

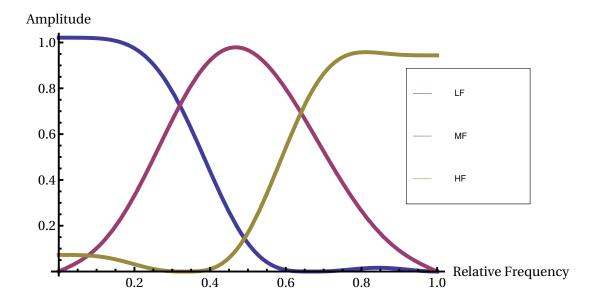
```
Array [kg2, 2 * KLM2 + 1, - KLM2];
For [i = -KLM2, i \le KLM2, i++, kg2[i] = 0.0];
For [i = -M1, i \le M1, i++, kg2[i] = kg[Abs[i]] /. NSLv[[kk]]];
shg = Sqrt[Sum[g2[i] ^2, {i, -M, M}]];
skg = Sqrt[Sum[kg2[i] ^2, {i, -M1, M1}]];
Array[b2, 2 * KLM2 + 1, - KLM2];
For [i = -KLM2, i \le KLM2, i++, b2[i] = 0.0];
For[i = -L, i \le L, i++, b2[i] = Sign[i] * b[Abs[i]] /. NSLv[[kk]]];
Array[kb2, 2 * KLM2 + 1, -KLM2];
For [i = -KLM2, i \le KLM2, i++, kb2[i] = 0.0];
For [i = -L1, i \le L1, i++, kb2[i] = -Sign[i] * kb[Abs[i]] /. NSLv[[kk]]];
shb = Sqrt[Sum[b2[i] ^2, {i, -L, L}]];
skb = Sqrt[Sum[kb2[i]^2, {i, -L1, L1}]];
(* нормировка по обратным функциям *)
(*For[i=-K,i≤K,i++,ss=h2[i]*skh;h2[i]=If[Abs[ss]<min,0.0,ss]];
For[i=-K1,i≤K1,i++,ss=kh2[i]/skh;kh2[i]=If[Abs[ss]<min,0.0,ss]];
For[i=-M,i≤M,i++,ss=g2[i]*skg;g2[i]=If[Abs[ss]<min,0.0,ss]];
For[i=-M1,i≤M1,i++,ss=kg2[i]/skg;kg2[i]=If[Abs[ss]<min,0.0,ss]];
For[i=-L,i≤L,i++,ss= b2[i]*skb;b2[i]=If[Abs[ss]<min,0.0,ss]];
For[i=-L1,i\leq L1,i++,ss=kb2[i]/skb;kb2[i]=If[Abs[ss]< min,0.0,ss]];*)
(* нормировка по прямым функциям *)
For [i = -K, i \le K, i++, ss = h2[i] / shh;
  h2[i] = If[Abs[ss] < min, 0.0, ss]];
For [i = -K1, i \le K1, i++, ss = kh2[i] * shh;
  kh2[i] = If[Abs[ss] < min, 0.0, ss]];
For [i = -M, i \le M, i++, ss = g2[i] / shg;
  g2[i] = If[Abs[ss] < min, 0.0, ss]];
For [i = -M1, i \le M1, i++, ss = kg2[i] * shg;
  kg2[i] = If[Abs[ss] < min, 0.0, ss]];
For [i = -L, i \le L, i++, ss = b2[i] / shb;
  b2[i] = If[Abs[ss] < min, 0.0, ss]];
For [i = -L1, i \le L1, i++, ss = kb2[i] * shb;
  kb2[i] = If[Abs[ss] < min, 0.0, ss]];
(*For[i=-KLM2,i≤KLM2,i++,Print[kh2[i]]];*)
sep = "\t";
(*For[i=-KLM2,i≤KLM2,i++,WriteString[fs,h2[i],sep,
  kh2[i],sep,b2[i],sep,kb2[i],sep,g2[i],sep,kg2[i],"\n"]];
Close[fs];*)
For [i = -KLM2, i \le KLM2, i++,
  Print[h2[i], sep, kh2[i], sep, b2[i], sep, kb2[i], sep, g2[i], sep, kg2[i]]];
```

```
ampl = 1.0 / Sqrt[3];
ph2 = ampl * (h2[0] + 2 * Sum[h2[i] * Cos[Pi * i * x], {i, 1, KLM2}]);
pb2 = ampl * 2 * Sum[b2[i] * Sin[Pi * i * x], {i, 1, KLM2}];
pg2 = ampl * (g2[0] + 2 * Sum[g2[i] * Cos[Pi * i * x], {i, 1, KLM2}]);
pkh2 = ampl * (kh2[0] + 2 * Sum[kh2[i] * Cos[Pi * i * x], {i, 1, KLM2}]);
pkb2 = -ampl * 2 * Sum[kb2[i] * Sin[Pi * i * x], {i, 1, KLM2}];
pkg2 = ampl * (kg2[0] + 2 * Sum[kg2[i] * Cos[Pi * i * x], {i, 1, KLM2}]);
pkhh2 = ph2 * pkh2 / (ampl * 3);
pkbb2 = pb2 * pkb2 / (ampl * 3);
pkgg2 = pg2 * pkg2 / (ampl * 3);
Needs["PlotLegends`"];
Print[h2[0] * g2[0] + 2 * h2[1] * g2[1]];
Print[kh2[0] * kg2[0] + 2 * kh2[1] * kg2[1]];
plot2 = Plot[{Abs[ph2], Abs[pb2], Abs[pg2]}, {x, 0, 1},
  AxesLabel → {"Relative Frequency", "Amplitude"}, PlotLegend → {"LF", "MF", "HF"},
  LabelStyle → Directive[FontFamily → "Times", FontSize → 14],
  PlotStyle → {Thickness[0.01]}, AxesStyle → Thick, ImageSize → Large,
  LegendPosition → {0.4, -0.3}, LegendSize → 0.5, LegendShadow → None]
Export["d:\plot2.eps", plot2]
plot1 = Plot[{Abs[pkh2], Abs[pkb2], Abs[pkg2]}, {x, 0, 1},
  AxesLabel → {"Relative Frequency", "Amplitude"}, PlotLegend → {"LF", "MF", "HF"},
  LabelStyle → Directive[FontFamily → "Times", FontSize → 14],
  PlotStyle → {Thickness[0.01]}, AxesStyle → Thick, ImageSize → Large,
  LegendPosition → {0.4, -0.3}, LegendSize → 0.5, LegendShadow → None]
Export["d:\plot1.eps", plot1]
Plot[\{pkhh2, pkbb2, pkgg2, (pkhh2 + pkbb2 + pkgg2)\}, \{x, 0, 1\}, AxesLabel \rightarrow \{"x", "y"\},
 LabelStyle → Directive[FontFamily → "Times", FontSize → 12],
 PlotStyle → {Thickness[0.01]}
11
```

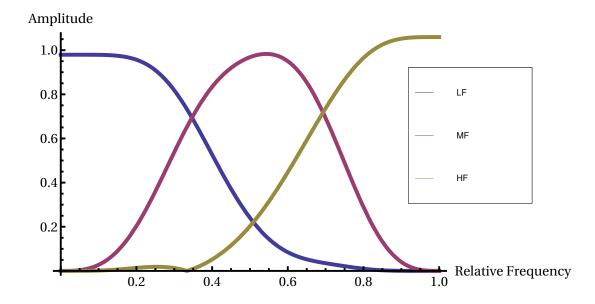
```
0. \quad 0.0000812236 \quad 0. \quad 0.0000540336 \quad 0. \quad -0.0000470757
0.
    -0.000411828 0. -0.000273966 0. 0.000238688
     0.000107057 0. 0.0000712195 0. -0.0000620485
0.
0. 0.00091449 0. -0.000815896 0. -0.000671062
0. 0.0016123 0. 0.00829397 0. -0.000219346
0.0123629 \qquad 0.00762182 \qquad -0.00151849 \qquad 0.00319313 \qquad 0.0195878 \qquad -0.00460337
-0.00810589 \quad -0.00257065 \quad 0.00475089 \quad -0.0337432 \quad -0.00853267 \quad 0.00924183
-0.0573942 \qquad -0.0434293 \qquad 0.0260899 \qquad 0.0239495 \qquad -0.069081 \qquad -0.0249847
-0.0494516 \qquad -0.0572617 \qquad 0.153701 \qquad -0.192827 \qquad 0.0783513 \qquad 0.0322635
0.155318 0.100785 -0.0473184 -0.052845 0.0954987 0.146139
0.499683 0.482119 -0.688063 0.687905 -0.509985 -0.499947
0.663679 0.717215 0. 0. 0.662462 0.685303
0.499683 0.482119 0.688063 -0.687905 -0.509985 -0.499947
-0.0494516 \qquad -0.0572617 \qquad -0.153701 \qquad 0.192827 \qquad 0.0783513 \qquad 0.0322635
-0.0573942 \qquad -0.0434293 \qquad -0.0260899 \qquad -0.0239495 \qquad -0.069081 \qquad -0.0249847
-0.00810589 \quad -0.00257065 \quad -0.00475089 \quad 0.0337432 \quad -0.00853267 \quad 0.00924183
0.0123629 \qquad 0.00762182 \qquad 0.00151849 \qquad -0.00319313 \qquad 0.0195878 \qquad -0.00460337
0. 0.0016123 0. -0.00829397
                                     0. -0.000219346
0. 0.00091449 0. 0.000815896 0. -0.000671062
0. 0.000107057 0. -0.0000712195 0. -0.0000620485
     -0.000411828 0. 0.000273966 0. 0.000238688
```

 $0. \quad 0.0000812236 \quad 0. \quad -0.0000540336 \quad 0. \quad -0.0000470757$

-0.07



d:\plot2.eps



d:\plot1.eps

