```matlab
% #### #########
%
% ########## ### # ###, ### ## ## ###### ######## ##########, #
  ##############
% ###### ######## ####### #######, ######## ###########, ####### ##
% #### ###### ##### ########## ##### ##### ####, # # ######### #####
% #######, ######## ######## ######## ################# ##########
  ########.
%
% ######## #########
%
% ##### ### ###### n ########## ####### # ## ########.
% I-## ######### ###### ##### #######.
% ### ########, ### ## ## #### ###### ##### i-## #### ####, # #####
  ######
% ### ##### ######## ###:
% (x-x_1)*(x-x_2)*...*(x-x_{i-1})*(x-x_{i+1})*...*(x-x_n).
% ## ### #### ##### ### x_i ## ##### ######## #### ### ##########
  ##### ###
% ########## ## x_i. ##### ## ####### ######### ############## # ####
% #####:        (x-x_1)*(x-x_2)*...*(x-x_{i-1})*(x-x_{i+1})*...*(x-
x_n)
%         L_i =
  -----------------------------------------------------------------
%               (x_i-x_1)*(x_i-x_2)*...*(x_i-x_{i-1})*(x_i-x_{i
+1})*...*(x_i-x_n)
%
% ##### ####### ### ########## ##### n ######## ###########.
% ##### ###### ## ######## ########## # ############### ########
  #######.
% y = \sigma_{i=1,n} y_i*L_i - ####### #########.
%
m = 2;
k = 20;
% ############## ############ ########
sq_2 = 1.4142; % ~sqrt(2)
sq_7 = 2.6458; % ~sqrt(7)
% ####### ######### # ## ####### ####### #######.
x_val = [-m, m*sq_2, sq_7, 2*sq_7];
y_val = [1, -k, sq_7, -2*sq_7];


n = length(x_val);

% ####### ####### ######### ######## i-## ######### ##########
L_i = @(x, i) prod(...
    (x - x_val([1:(i-1), (i+1):end])) ./ ...
    (x_val(i) - x_val([1:(i-1), (i+1):end])),...
    2);

x = linspace(min(x_val), max(x_val)).';
y = zeros(size(x));
```

```matlab
figure(1);
for i = 1 : n
    y_i = y_val(i) * L_i(x, i);
    y = y + y_i;
    pl = plot(x, y_i); hold on;
    sc = scatter(x_val(i), y_val(i), 60, 'LineWidth', 1, ...
        'MarkerFaceColor', pl.Color, 'MarkerEdgeColor', 'none');
    sc.HandleVisibility = 'off'; % Don't show the scatter points in
 (future) legend
end
plot(x, y, '--k', 'LineWidth', 1.5);
hold off;
legend('L_1', 'L_2', 'L_3', 'L_4', 'L');
syms x;
for i = 1 : n
    y_i = y_val(i) * L_i(x, i);
    y = y + y_i;
end
% ### # ######## ####### ####### #########
% ###### ## ##### ## ##### ######### ###########.
% ### ########## ##, # ## ####### ### #####.
assume(y,'real');
y = expand(y);
y = simplifyFraction(y);
display(y);
```

y =

(49191779540368750000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
467350654950588061137/1596520744108419833
(49191779540368750000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
35711824655427519765430892765019309/11234515981649916495417805321012
(49191779540368750000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
767790725419917906572865934190061181/22469031963299832990835610642024
(49191779540368750000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
409227796094883201198821405399573771/11234515981649916495417805321012
(49191779540368750000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
433143207542063656220185676926012031/11234515981649916495417805321012
(49191779540368750000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/1596520744108419833

```
- (16196326516388476417*x)/870829496786410818 +
56958657235564458247433258887496 85/140431449770623956192722566512 64
    (4919177954036875 0000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
11920840198881371038288141380909085/280862899541247912385445133 02528
    (4919177954036875 0000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
24833195929364830915697282236194879/561725799082495824770890266 05056
    (4919177954036875 0000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
128796962653414135880189835635171 35/280862899541247912385445133 02528
    (4919177954036875 0000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
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    (4919177954036875 0000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
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        (4919177954036875 0000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
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    (4919177954036875 0000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (16196326516388476417*x)/870829496786410818 +
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    (4919177954036875 0000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
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    (4919177954036875 0000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/159 6520744108419833
- (16196326516388476417*x)/870829496786410818 +
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```

$(49191779540368750000*x^3)/4789562232325259499$

$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
$160160278292763159593345409773842 09/2808628995412479123854451 3302528$
$\quad (49191779540368750000*x^3)/4789562232325259499$

$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
$403528779315275554043575227420657 7/701572488531197809636128325632$
$\quad (49191779540368750000*x^3)/4789562232325259499$

$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
$162426048215337245354373066876559 53/2808628995412479123854451330252 8$
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$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
$163210802968698109620078942701159 29/2808628995412479123854451330252 8$
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$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
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$\quad (49191779540368750000*x^3)/4789562232325259499$

$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
$164118628100836922897020138161575 13/2808628995412479123854451330252 8$
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$- (98091516312036408750*x^2)/1596520744108419833$

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$- (16196326516388476417*x)/870829496786410818 +$
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$- (98091516312036408750*x^2)/1596520744108419833$

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$163929882986395989019202295664062 45/2808628995412479123854451330252 8$
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$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
$163481166697891463347934367826855 23/2808628995412479123854451330252 8$
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$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
$162851075131297897986346694154549 61/2808628995412479123854451330252 8$
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$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
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$\quad (49191779540368750000*x^3)/4789562232325259499$

$- (98091516312036408750*x^2)/1596520744108419833$

$- (16196326516388476417*x)/870829496786410818 +$
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$\quad (49191779540368750000*x^3)/4789562232325259499$

$- (98091516312036408750*x^2)/1596520744108419833$

```
- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
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    (49191779540368750000*x^3)/4789562232325259499
- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
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- (98091516312036408750*x^2)/1596520744108419833
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- (98091516312036408750*x^2)/1596520744108419833
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- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
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        (49191779540368750000*x^3)/4789562232325259499
    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
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    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
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    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
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    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
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    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
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    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
  45681748532402140838637786725037183/11234515981649916495417805 3210112
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    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
  433515218920527852798643479454850 11/11234515981649916495417805 3210112
     (49191779540368750000*x^3)/4789562232325259499
    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
  4218407761213443980250711868991643 7/11234515981649916495417805 3210112
     (49191779540368750000*x^3)/4789562232325259499
    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
  41018767470122401591206609454925943/11234515981649916495417805 3210112
     (49191779540368750000*x^3)/4789562232325259499
    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
  39858357549318212593200197670965671/11234515981649916495417805 3210112
     (49191779540368750000*x^3)/4789562232325259499
    - (98091516312036408750*x^2)/1596520744108419833
    - (16196326516388476417*x)/870829496786410818 +
  7741122786604684707317870672959368 9/224690319632998329908356106420224
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    - (98091516312036408750*x^2)/1596520744108419833
```

```
- (16196326516388476417*x)/870829496786410818 +
7512660540907917508851332545162087 3/22469031963299832990835610642022 4
 (4919177954036875000 0*x^3)/478956222 3325259499
- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
364341899471682529452247961813792 1/11234515981649916495417805321011 2
(4919177954036875000 0*x^3)/478956222 3325259499
- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
141284166976843848395017469997345593/44938063926599665981671221284044 8
(4919177954036875000 0*x^3)/478956222 3325259499
- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
2738129934317543317116063611554951 91/8987612785319933196334244256808 96
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- (98091516312036408750*x^2)/1596520744108419833
- (16196326516388476417*x)/870829496786410818 +
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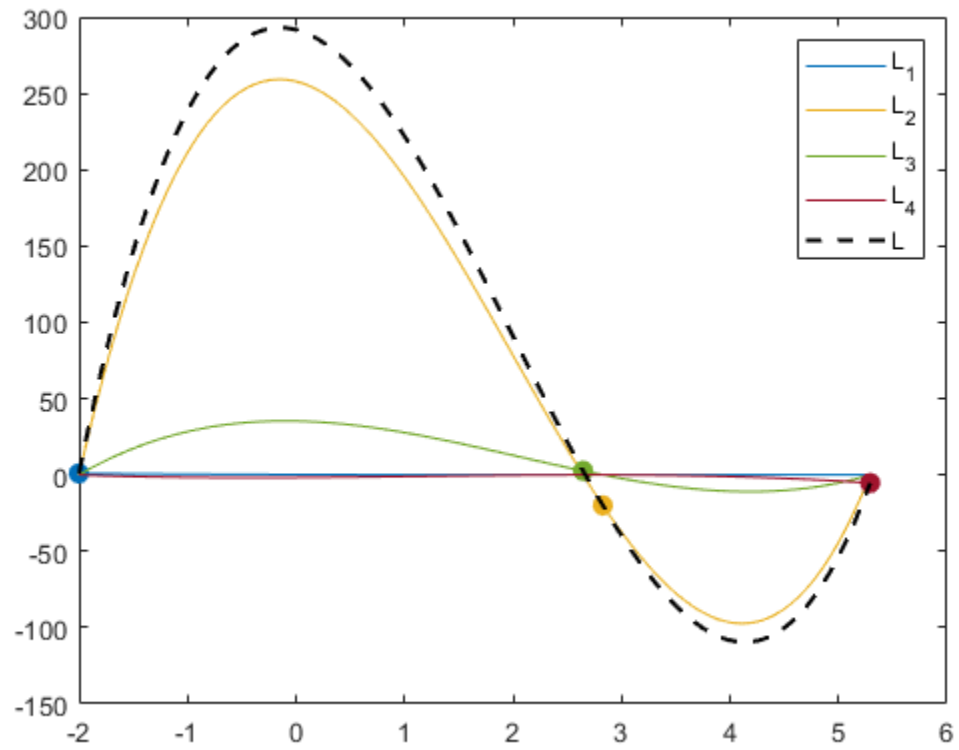
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