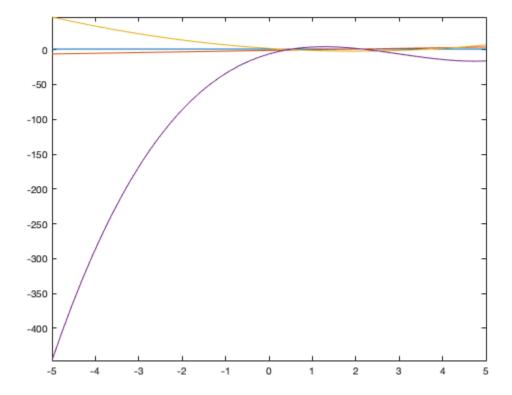
```
1 \ 0 = 1;
1 1 = @(x) x-1;
1_2 = @(x) x^2-4*x+2;
1_3 = @(x) x^3-9*x^2+18*x-6;
fplot(1_0)
hold on
fplot(l_1)
fplot(1_2)
fplot(1_3)
hold off
% (b) verify that for n = 2 and n = 3.
% the quadrature nodes xi are the roots of the polynomials 12(x),
13(x)
sprintf('%f',1_2(0.585786))
sprintf('%f',1_2(0.585786))
sprintf('%f',1_2(3.41421))
% n = 3
sprintf('%f',1_3(0.415775))
sprintf('%f',1_3(2.29428))
sprintf('%f',1_3(6.28995))
Warning: Function behaves unexpectedly on array inputs. To improve
performance,
properly vectorize your function to return an output with the same
 size and
shape as the input arguments.
Warning: Function behaves unexpectedly on array inputs. To improve
 performance,
properly vectorize your function to return an output with the same
 size and
shape as the input arguments.
ans =
    '0.000001'
ans =
    '0.000001'
ans =
    '-0.000010'
ans =
    '0.000005'
```

ans =
'0.000003'
ans =

'0.000115'



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