```
In[163]:= ClearAll;
DD = 0.1;
NN = 10;
SS1[x_] := N[Sin[x], 15];
SS2[x_] := If[Sin[x] < 0, -1, 1];

TT1[x_, n_] := N[2.5 * Abs[Round[$\frac{\frac{n}{2} * x}{\pi}$] - ($\frac{\frac{n}{2} * x}{\pi}$)], 15];

TT3[x_, n_] := TT1[x, n] * SS2[x]
TT4[x_, n_] := If[Abs[SS1[x]] > TT1[x, n], 1.25 * SS2[x], 0]
LS1[xx_, yy_, nn_] := Table[{x, SS1[x]}, {x, xx, yy, DD}];
LT3[xx_, yy_, nn_] := Table[{x, TT3[x, nn]}, {x, xx, yy, DD}];
LT4[xx_, yy_, nn_] := Table[{x, TT4[x, nn]}, {x, xx, yy, DD * 0.1}];
AA1[xx_, nn_, dd_] := Sum[TT4[yy, nn] * dd, {yy, 0, xx, dd}];
LA1[xx_, yy_, nn_] := Table[{x, AA1[x, nn, DD * 0.1]}, {x, xx, yy, DD}];
aaaa3 = ListPlot[
    {
      LS1[0, 5 π, NN],
      LT3[0, 5 π, NN],
      LT4[0, 5 π, NN]
    }, PlotLegends → "Expressions", Joined → True, PlotStyle → {Green, Red, Blue}];
aaaa4 = ListPlot[
    {
      LA1[0, 5 π, NN]
    }, PlotLegends → "Expressions", Joined → False, PlotStyle → {Black}];
Show[{aaaa4}]
Show[{aaaa3}]
Show[{aaaa3, aaaa4}]
```

Out[178]=

Out[179]=

Out[180]=