

```

In[1]:=  $\Lambda[t\_ , b\_ , d\_ ] := \text{Max}[\{0, \text{Min}[\{t - b, d - t\}]\}]$ 
 $\lambda[t\_ , k\_ , bd\_ ] := \text{Module}[\{l = \{\}, i = 1\},$ 
  For[ $i = 1, i \leq \text{Length}[bd], i++$ , AppendTo[l,  $\Lambda[t, bd[[i]][[1]], bd[[i]][[2]]$ ]];
  Return[Sort[l, ( $\#1 > \#2$ ) &][[k]]]

```

```

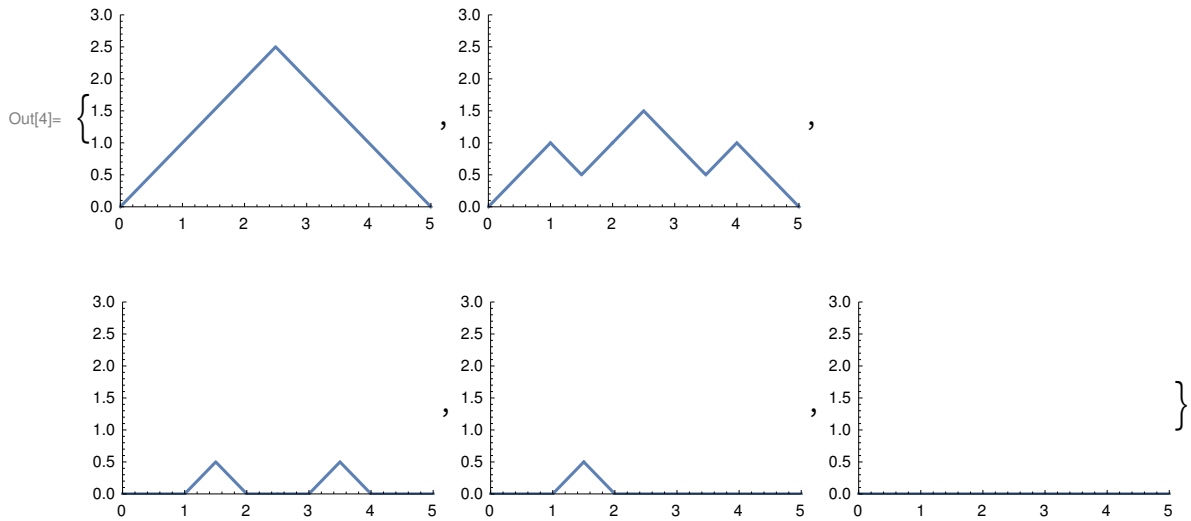
In[3]:= bd = {{0, 5}, {0, 2}, {1, 4}, {1, 2}, {3, 5}};

```

```

In[4]:= Table[Plot[ $\lambda[k, i, bd]$ , {k, 0, 5}, PlotRange → {{0, 5}, {0, 3}}], {i, 1, 5}]

```



```

In[5]:= Plot[{ $\lambda[k, 1, bd]$ ,  $\lambda[k, 2, bd]$ ,  $\lambda[k, 3, bd]$ ,  $\lambda[k, 4, bd]$ ,  $\lambda[k, 5, bd]$ },
  {k, 0, 5}, PlotLegends → {" $\lambda_1$ ", " $\lambda_2$ ", " $\lambda_3$ ", " $\lambda_4$ ", " $\lambda_5$ "}]

```

