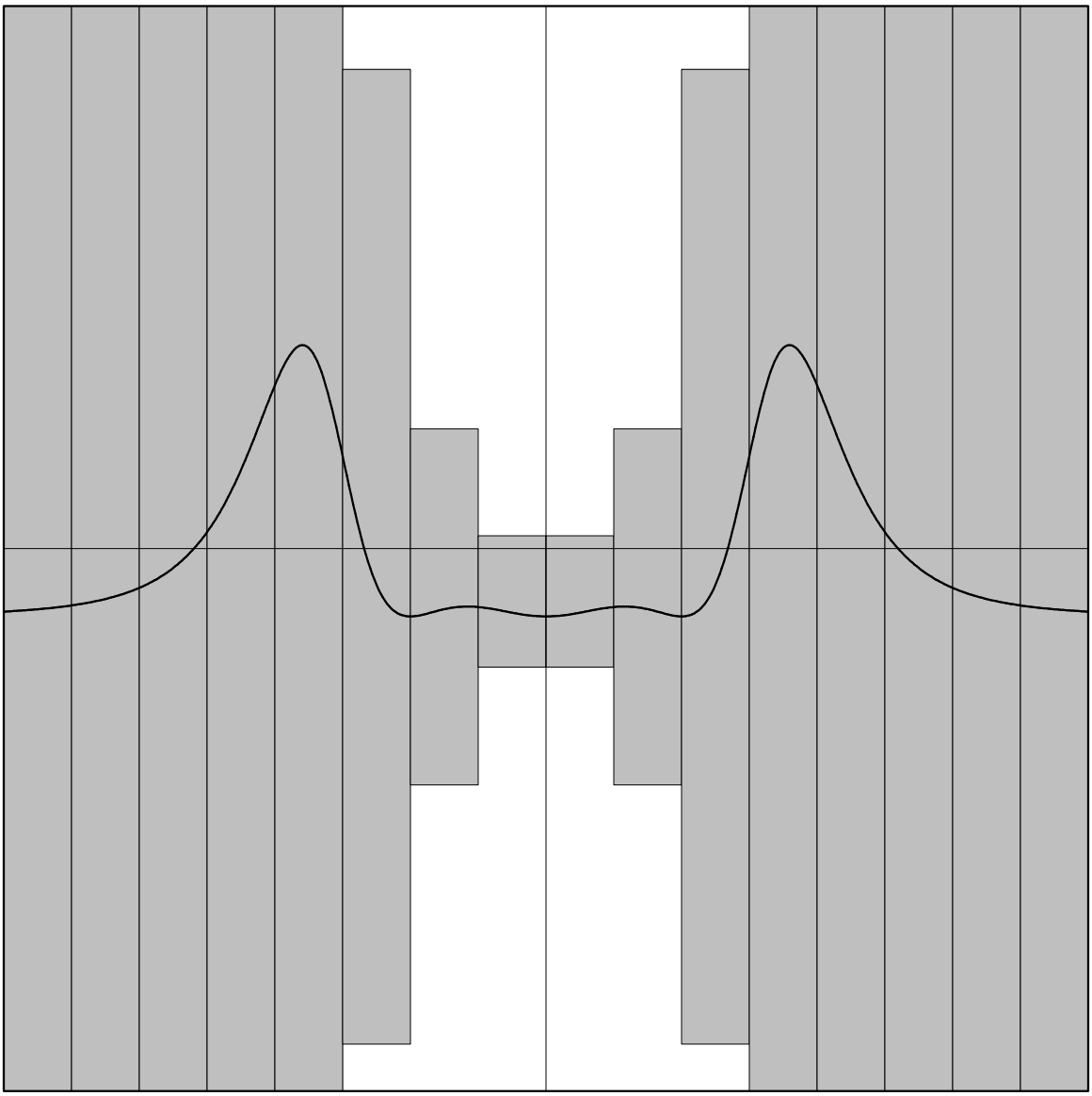
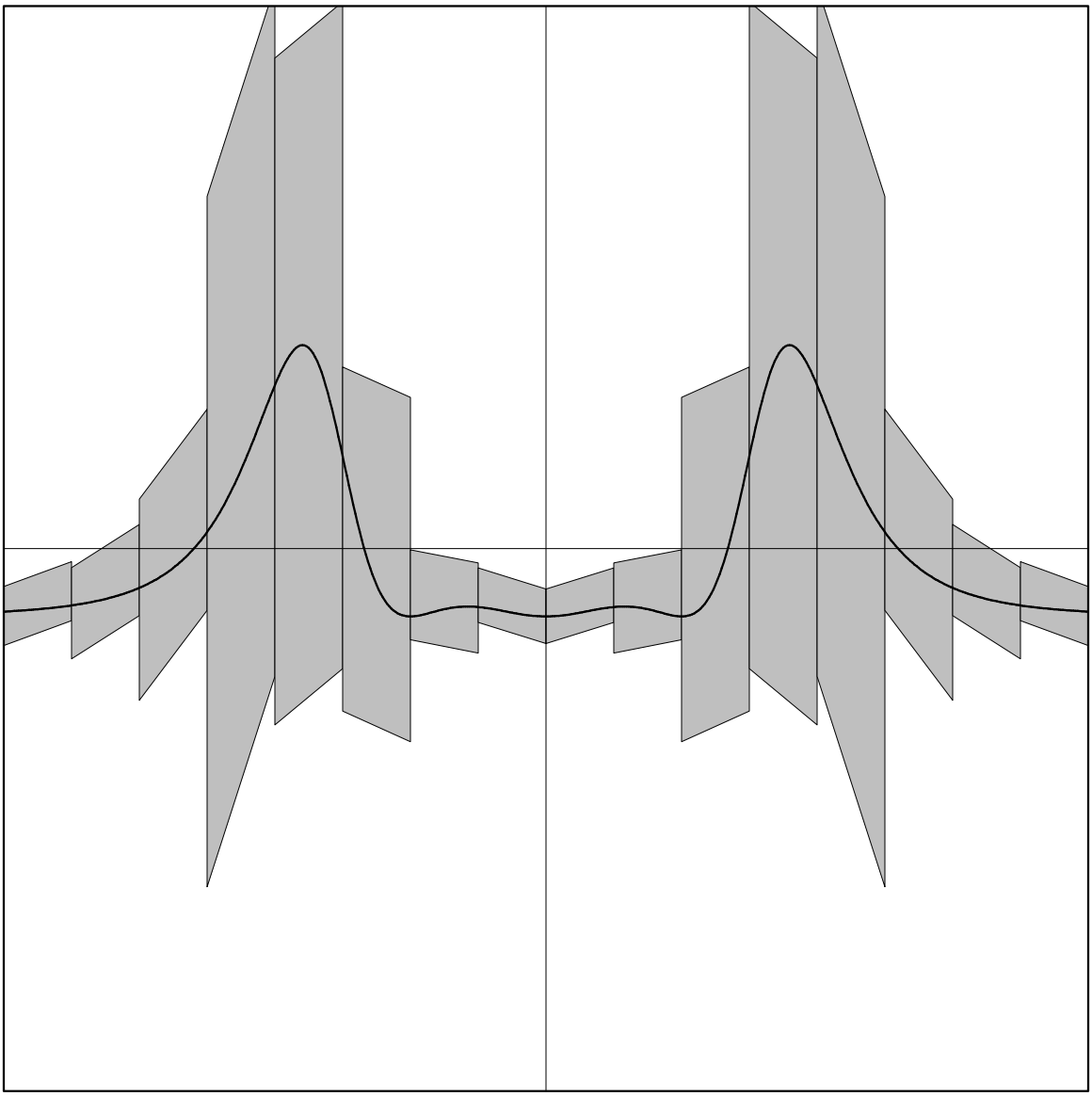
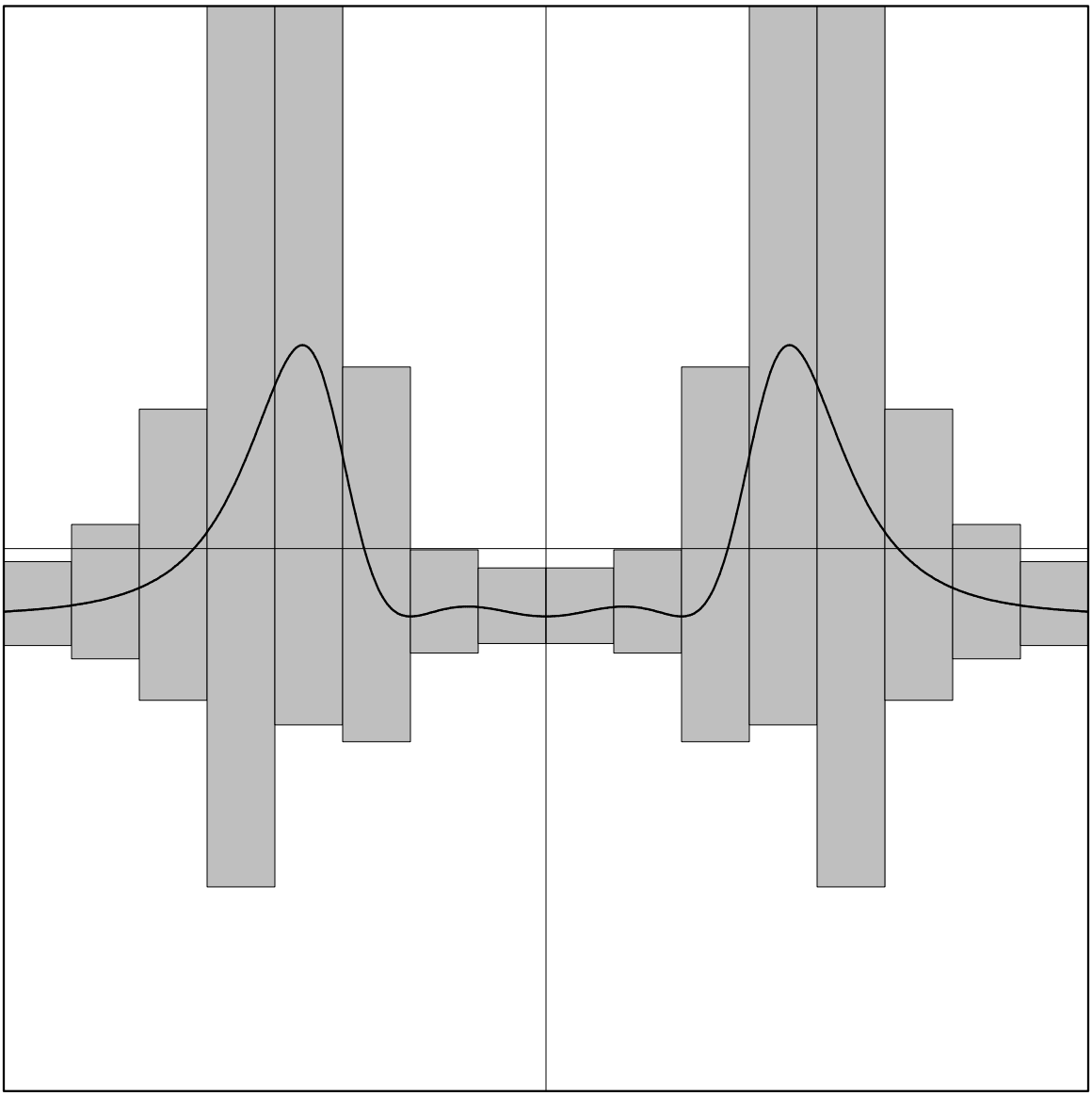


```
y = -range(x);
d = x-y;
t = d(1-d^2);
h = t/(1+t^2);
u = x+h;
v = x+h;
g = u^2 + v^2 + 2uv - 1/4

x in [-2.000000 _ 2.000000]  y in [-2.000000 _ 2.000000]  16 intervals

Ordinary interval arithmetic
```



```
y = -range(x);
d = x-y;
t = d(1-d^2);
h = t/(1+t^2);
u = x+h;
v = x+h;
g = u^2 + v^2 + 2uv - 1/4

x in [-2.000000 _ 2.000000]  y in [-2.000000 _ 2.000000]  16 intervals

Affine arithmetic
```



```
y = -range(x);
d = x-y;
t = d(1-d^2);
h = t/(1+t^2);
u = x+h;
v = x+h;
g = u^2 + v^2 + 2uv - 1/4
```

x in [-2.000000 _ 2.000000] y in [-2.000000 _ 2.000000] 16 intervals

Affine arithmetic (converted to intervals)