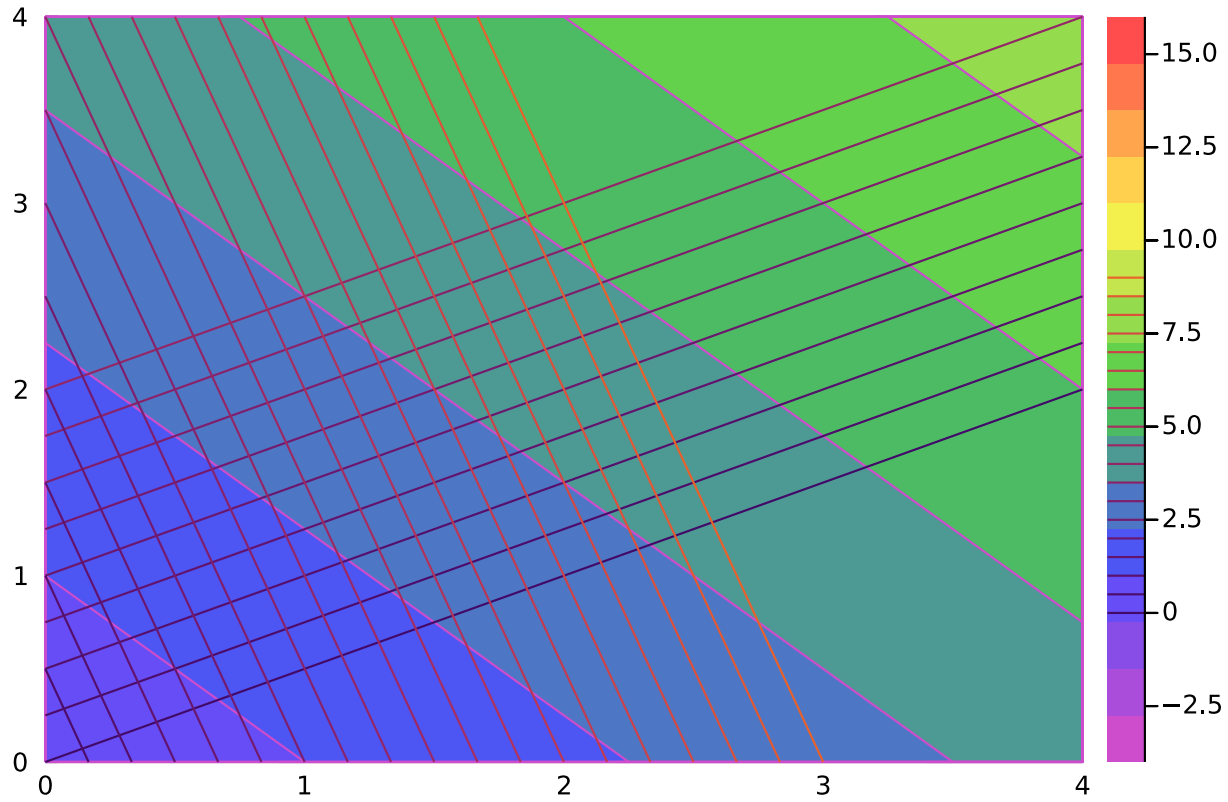
0.1 H34

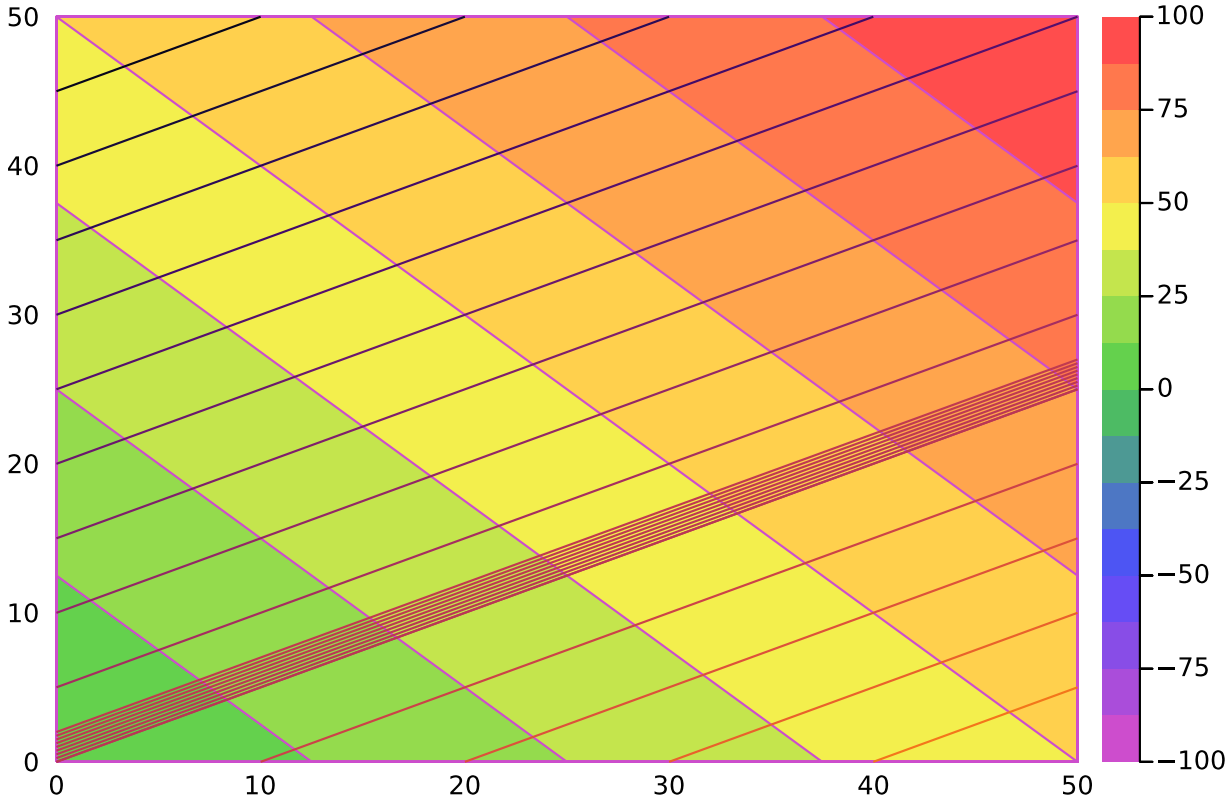
```
using Plots, LinearAlgebra

function plotnb(A, b, c, xy)
    fig = contour(xy..., (x1, x2) -> c' * [x1; x2],
                  fill=true, c=:lightrainbow);
    contour!(fig, xy..., (x1, x2) -> (A*[x1, x2])[1],
             levels=0:0.5:b[1]);
    contour!(fig, xy..., (x1, x2) -> (A*[x1, x2])[2],
             levels=0:0.5:b[2]);
    return fig
end
```

```
plotnb (generic function with 1 method)
```

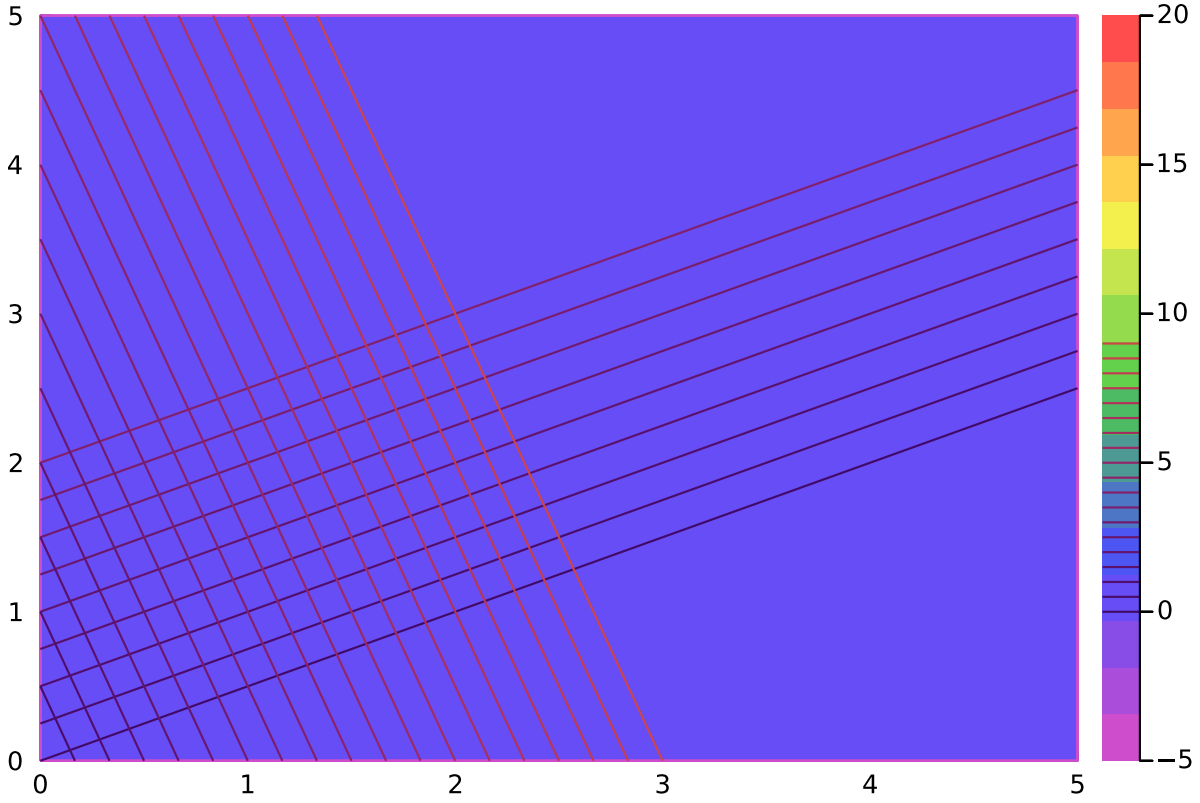
```
xy = (0:0.1:4, 0:0.1:4)
A = [-1. 2.;
      3. 1.]
b, c = [4., 9.], [1., 1.]
plotnb(A, b, c, xy)
```



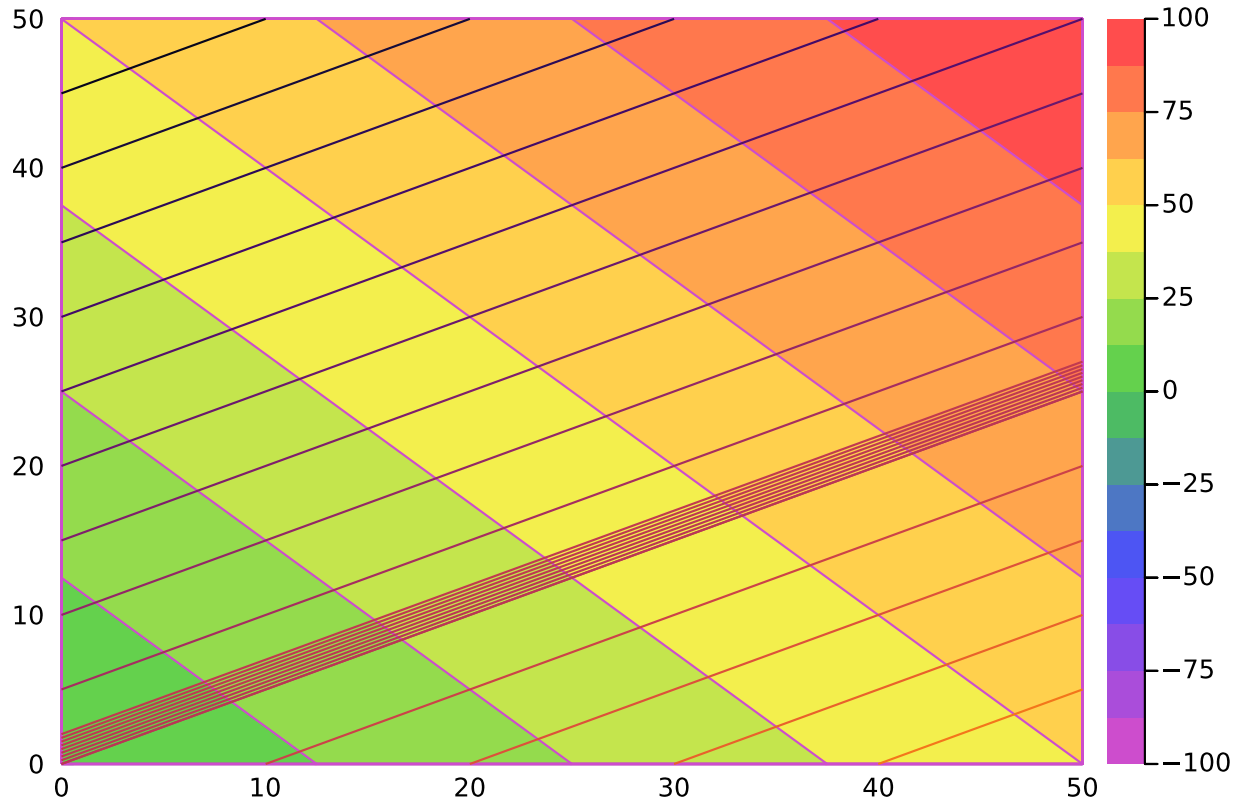

```
xy = (0:0.1:50, 0:0.1:50)
A = [-1. 2.;
      1. -2.]
b, c = [4., -2.], [1., 1.]
plotnb(A, b, c, xy)
```



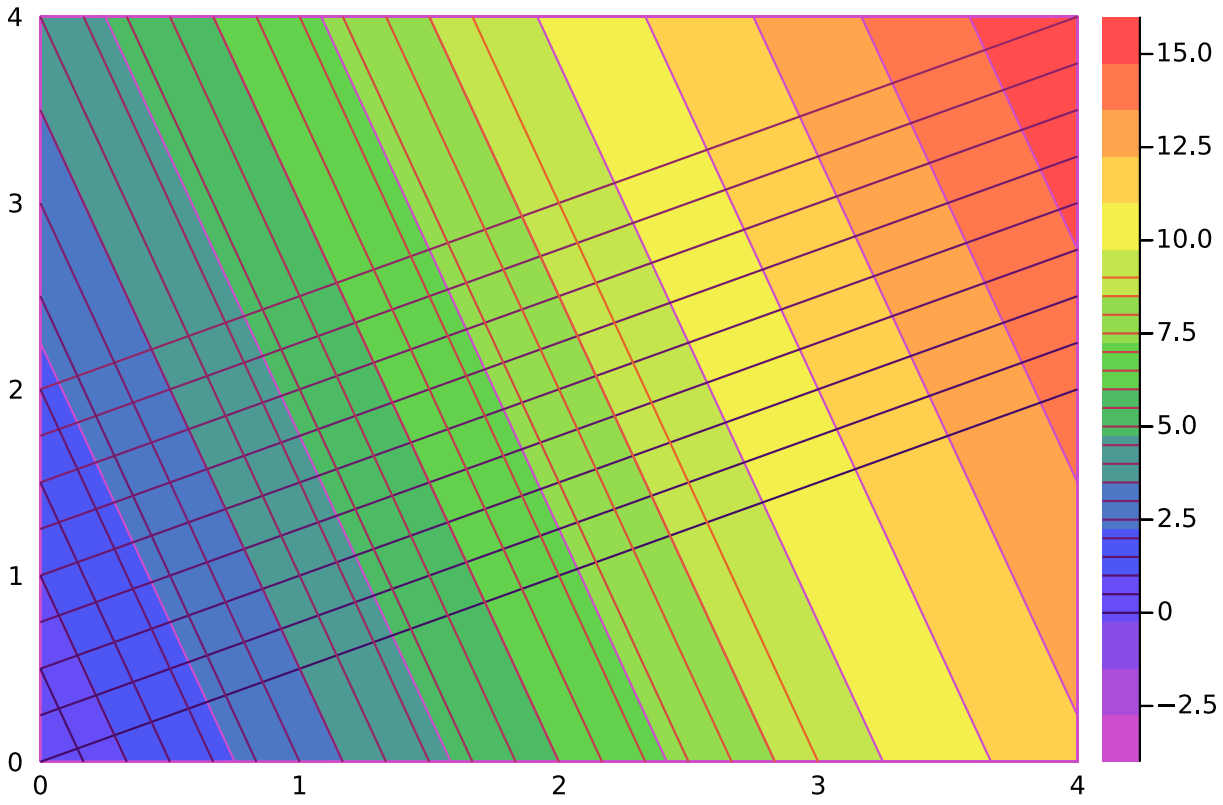

```
xy = (0:0.1:5, 0:0.1:5)
A = [-1. 2.;
      3. 1.]
b, c = [4., 9.], [0., 0.]
plotnb(A, b, c, xy)
```



```
xy = (0:0.1:50, 0:0.1:50)
A = [-1. 2.;
      1. -2.]
b, c = [4., -5.], [1., 1.]
plotnb(A, b, c, xy)
```




```
xy = (0:0.1:4, 0:0.1:4)
A = [-1. 2.;
      3. 1.]
b, c = [4., 9.], [3., 1.]
plotnb(A, b, c, xy)
```




```
xy = (0:0.1:4, 0:0.1:4)
A = [-1. 2.;
      3. 1.]
b, c = [4., 9.], [2., 2.]
plotnb(A, b, c, xy)
```