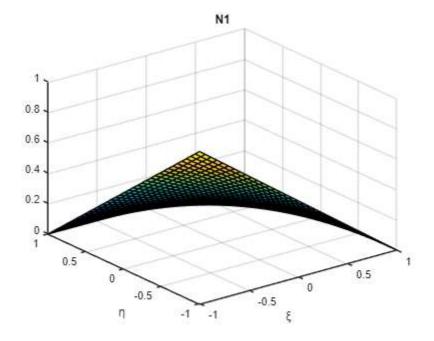
Exercises 7.2

- 5. (Opt.) Find all shape functions for the transition element shown below.
- 6. (Opt.) Using computer software plot the shape functions of nodes 1 and 5 for the element in the last exercise.

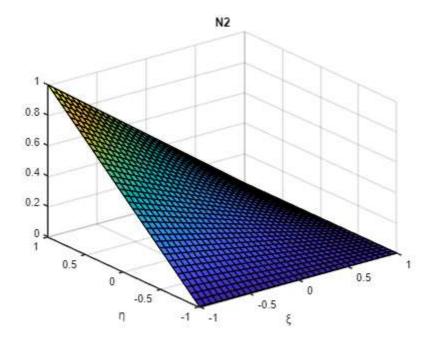
```
clear all clc
```

```
syms xi eta a b x
```

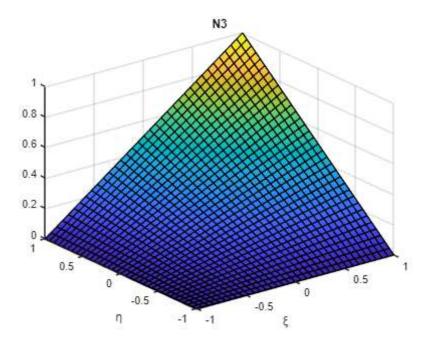
```
fsurf(N1,[-1 1 -1 1])
title 'N1'
xlabel ("ξ");
ylabel ("η");
```



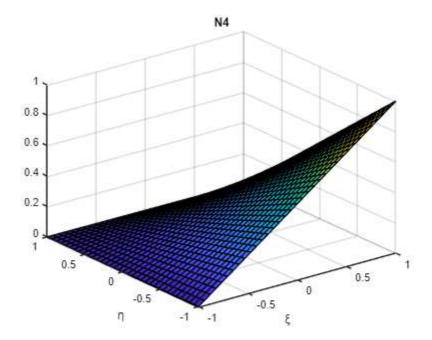
```
fsurf(N2,[-1 1 -1 1])
title 'N2'
xlabel ("ξ");
ylabel ("η");
```



```
fsurf(N3,[-1 1 -1 1])
title 'N3'
xlabel ("ξ");
ylabel ("η");
```



```
fsurf(N4,[-1 1 -1 1])
title 'N4'
xlabel ("ξ");
ylabel ("η");
```



```
fsurf(N5,[-1 1 -1 1])
title 'N5'
xlabel ("ξ");
ylabel ("η");
```

