

## One-Dimensional Grids

### Case 1

$$NS = [ 5 , 1 ]$$

$$RES = [ 0.1 , 0.2 ]$$

$$BC = [ 0 , 0 ]$$

$$DEX =$$

$$\begin{bmatrix} -10 & 10 & 0 & 0 & 0 \\ 0 & -10 & 10 & 0 & 0 \\ 0 & 0 & -10 & 10 & 0 \\ 0 & 0 & 0 & -10 & 10 \\ 0 & 0 & 0 & 0 & -10 \end{bmatrix}$$

$$DEY =$$

$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

$$DHX =$$

$$\begin{bmatrix} 10 & 0 & 0 & 0 & 0 \\ -10 & 10 & 0 & 0 & 0 \\ 0 & -10 & 10 & 0 & 0 \\ 0 & 0 & -10 & 10 & 0 \\ 0 & 0 & 0 & -10 & 10 \end{bmatrix}$$

$$DHY =$$

$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

## Case 2

$$\begin{aligned} \text{NS} &= [ 1 , 5 ] \\ \text{RES} &= [ 0.1 , 0.2 ] \\ \text{BC} &= [ 0 , 0 ] \end{aligned}$$

$$\text{DEX} =$$

$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 & ] \\ 0 & 0 & 0 & 0 & 0 & ] \\ 0 & 0 & 0 & 0 & 0 & ] \\ 0 & 0 & 0 & 0 & 0 & ] \\ 0 & 0 & 0 & 0 & 0 & ] \end{bmatrix}$$

$$\text{DEY} =$$

$$\begin{bmatrix} -5 & 5 & 0 & 0 & 0 & ] \\ 0 & -5 & 5 & 0 & 0 & ] \\ 0 & 0 & -5 & 5 & 0 & ] \\ 0 & 0 & 0 & -5 & 5 & ] \\ 0 & 0 & 0 & 0 & -5 & ] \end{bmatrix}$$

$$\text{DHX} =$$

$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 & ] \\ 0 & 0 & 0 & 0 & 0 & ] \\ 0 & 0 & 0 & 0 & 0 & ] \\ 0 & 0 & 0 & 0 & 0 & ] \\ 0 & 0 & 0 & 0 & 0 & ] \end{bmatrix}$$

$$\text{DHY} =$$

$$\begin{bmatrix} 5 & 0 & 0 & 0 & 0 & ] \\ -5 & 5 & 0 & 0 & 0 & ] \\ 0 & -5 & 5 & 0 & 0 & ] \\ 0 & 0 & -5 & 5 & 0 & ] \\ 0 & 0 & 0 & -5 & 5 & ] \end{bmatrix}$$

### Case 3

```
NS = [ 4 , 1 ]
RES = [ 0.1 , 0.2 ]
BC = [ -2 , -2 ]
kinc = [ 2.2214 , 4.4429 ]
```

DEX =

```
[      -10      10      0      0 ]
[      0     -10     10      0 ]
[      0      0    -10     10 ]
[ 6.3+7.8i      0      0    -10 ]
```

DEY =

```
[ 0+4.4i      0      0      0 ]
[      0 0+4.4i      0      0 ]
[      0      0 0+4.4i      0 ]
[      0      0      0 0+4.4i ]
```

DHX =

```
[      10      0      0 -6.3+7.8i ]
[     -10     10      0      0 ]
[      0     -10     10      0 ]
[      0      0     -10     10 ]
```

DHY =

```
[ 0+4.4i      0      0      0 ]
[      0 0+4.4i      0      0 ]
[      0      0 0+4.4i      0 ]
[      0      0      0 0+4.4i ]
```

### Case 4

```

NS   = [ 1 , 4 ]
RES  = [ 0.1 , 0.2 ]
BC   = [ -2 , -2 ]
kinc = [ 2.2214 , 4.4429 ]
    
```

DEX =

```

[ 0+2.2i    0    0    0 ]
[    0 0+2.2i    0    0 ]
[    0    0 0+2.2i    0 ]
[    0    0    0 0+2.2i ]
    
```

DEY =

```

[   -5    5    0    0 ]
[    0   -5    5    0 ]
[    0    0   -5    5 ]
[ -4.6-2i    0    0   -5 ]
    
```

DHX =

```

[ 0+2.2i    0    0    0 ]
[    0 0+2.2i    0    0 ]
[    0    0 0+2.2i    0 ]
[    0    0    0 0+2.2i ]
    
```

DHY =

```

[    5    0    0 4.6-2i ]
[   -5    5    0    0 ]
[    0   -5    5    0 ]
[    0    0   -5    5 ]
    
```

### Case 5

```

NS   = [ 1 , 3 ]
RES  = [ 0.2 , 0.1 ]
BC   = [ 0 , 0 ]
kinc = [ 4.4429 , 4.4429 ]
    
```

DEX =

```

[ 0+4.4429i    0          0          ]
[ 0            0+4.4429i  0          ]
[ 0            0          0+4.4429i  ]
    
```

DEY =

```

[ -10   10   0 ]
[  0  -10  10 ]
[  0   0  -10 ]
    
```

DHX =

```

[ 0+4.4429i    0          0          ]
[ 0            0+4.4429i  0          ]
[ 0            0          0+4.4429i  ]
    
```

DHY =

```

[ 10   0   0 ]
[ -10  10   0 ]
[  0  -10  10 ]
    
```

## Case 6

```

NS   = [ 4 , 1 ]
RES  = [ 0.2 , 0.1 ]
BC   = [ 0 , 0 ]
kinc = [ 5.4414 , 3.1416 ]
    
```

DEX =

```

[ -5   5   0   0 ]
[  0  -5   5   0 ]
[  0   0  -5   5 ]
[  0   0   0  -5 ]
    
```

DEY =

```

[ 0+3.1416i   0   0   0 ]
[ 0           0+3.1416i   0   0 ]
[ 0           0   0+3.1416i   0 ]
[ 0           0   0   0+3.1416i ]
    
```

DHX =

```

[  5   0   0   0 ]
[ -5   5   0   0 ]
[  0  -5   5   0 ]
[  0   0  -5   5 ]
    
```

DHY =

```

[ 0+3.1416i   0   0   0 ]
[ 0           0+3.1416i   0   0 ]
[ 0           0   0+3.1416i   0 ]
[ 0           0   0   0+3.1416i ]
    
```

## Case 7

```
NS   = [ 1 , 4 ]
RES  = [ 0.5 , 0.9 ]
BC   = [ 0 , -2 ]
kinc = [ -2.1 , 0.9 ]
```

DEX =

```
[ 0-2.1i    0      0      0      ]
[ 0         0-2.1i  0      0      ]
[ 0         0      0-2.1i  0      ]
[ 0         0      0      0-2.1i ]
```

DEY =

```
[ -1.11    1.11    0      0      ]
[ 0        -1.11   1.11   0      ]
[ 0         0      -1.11  1.11  ]
[ 0         0         0     -1.11 ]
```

DHX =

```
[ 0-2.1i    0      0      0      ]
[ 0         0-2.1i  0      0      ]
[ 0         0      0-2.1i  0      ]
[ 0         0      0      0-2.1i ]
```

DHY =

```
[ 1.11    0      0      0      ]
[ -1.11   1.11   0      0      ]
[ 0        -1.11  1.11   0      ]
[ 0         0      -1.11  1.11  ]
```

## Two-Dimensional Grids

### Case 1

NS = [ 3 , 3 ]  
 RES = [ 0.5 , 0.4 ]  
 BC = [ 0 , 0 ]

DEX =

```
[ -2  2  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0 ]
[  0  0 -2  0  0  0  0  0  0 ]
[  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0 -2  0  0  0 ]
[  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0 -2  2 ]
[  0  0  0  0  0  0  0  0 -2 ]
```

DEY =

```
[ -2.5  0  0  2.5  0  0  0  0  0 ]
[  0 -2.5  0  0  2.5  0  0  0  0 ]
[  0  0 -2.5  0  0  2.5  0  0  0 ]
[  0  0  0 -2.5  0  0  2.5  0  0 ]
[  0  0  0  0 -2.5  0  0  2.5  0 ]
[  0  0  0  0  0 -2.5  0  0  2.5 ]
[  0  0  0  0  0  0 -2.5  0  0 ]
[  0  0  0  0  0  0  0 -2.5  0 ]
[  0  0  0  0  0  0  0  0 -2.5 ]
```

DHX =

```
[  2  0  0  0  0  0  0  0  0 ]
[ -2  2  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  2  0  0  0  0  0 ]
[  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0  2  0  0  0 ]
[  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0 -2  2 ]
```

DHY =

```
[  2.5  0  0  0  0  0  0  0  0 ]
[  0  2.5  0  0  0  0  0  0  0 ]
[  0  0  2.5  0  0  0  0  0  0 ]
[ -2.5  0  0  2.5  0  0  0  0  0 ]
[  0 -2.5  0  0  2.5  0  0  0  0 ]
[  0  0 -2.5  0  0  2.5  0  0  0 ]
[  0  0  0 -2.5  0  0  2.5  0  0 ]
[  0  0  0  0 -2.5  0  0  2.5  0 ]
[  0  0  0  0  0 -2.5  0  0  2.5 ]
```



## Case 2

NS = [ 4 , 4 ]  
 RES = [ 0.5 , 0.4 ]  
 BC = [ 0 , 0 ]

DEX =

```
[ -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2 ]
```

DEY =

```
[ -2.5  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2.5  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2.5  0  0  0  2.5  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2.5  0  0  0  2.5  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2.5  0  0  0  2.5  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2.5  0  0  0  2.5  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2.5  0  0  0  2.5  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2.5  0  0  0  2.5  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2.5  0  0  0  2.5  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  2.5  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  2.5  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  2.5 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  2.5 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2.5  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2.5 ]
```

DHX =

```
[  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[ -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  2  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  2  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2 ]
```





DEY =

[	-2.5	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	]
[	0	-2.5	0	0	0	0	2.5	0	0	0	0	0	0	0	0	]
[	0	0	-2.5	0	0	0	0	2.5	0	0	0	0	0	0	0	]
[	0	0	0	-2.5	0	0	0	0	2.5	0	0	0	0	0	0	]
[	0	0	0	0	-2.5	0	0	0	0	2.5	0	0	0	0	0	]
[	0	0	0	0	0	-2.5	0	0	0	0	2.5	0	0	0	0	]
[	0	0	0	0	0	0	-2.5	0	0	0	0	2.5	0	0	0	]
[	0	0	0	0	0	0	0	-2.5	0	0	0	0	2.5	0	0	]
[	0	0	0	0	0	0	0	0	-2.5	0	0	0	0	2.5	0	]
[	0	0	0	0	0	0	0	0	0	-2.5	0	0	0	0	2.5	]
[	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	-2.5	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2.5	]

DHX =

[	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	-2	2	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	-2	2	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2	2	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	-2	2	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	-2	2	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	-2	2	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	-2	2	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	]

DHY =

[	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	]
[	-2.5	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	]
[	0	-2.5	0	0	0	0	2.5	0	0	0	0	0	0	0	0	]
[	0	0	-2.5	0	0	0	0	2.5	0	0	0	0	0	0	0	]
[	0	0	0	-2.5	0	0	0	0	2.5	0	0	0	0	0	0	]
[	0	0	0	0	-2.5	0	0	0	0	2.5	0	0	0	0	0	]
[	0	0	0	0	0	-2.5	0	0	0	0	2.5	0	0	0	0	]
[	0	0	0	0	0	0	-2.5	0	0	0	0	2.5	0	0	0	]
[	0	0	0	0	0	0	0	-2.5	0	0	0	0	2.5	0	0	]
[	0	0	0	0	0	0	0	0	-2.5	0	0	0	0	2.5	0	]
[	0	0	0	0	0	0	0	0	0	-2.5	0	0	0	0	2.5	]

### Case 5

NS = [ 5 , 5 ]  
RES = [ 0.5 , 0.4 ]  
BC = [ 0 , 0 ]

DEX =

```
[ -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2 ]
```

DEY =

```
[ -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2.5  0  0  0  0  0  2.5  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  0  0  0  2.5  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  0  0  0  0  2.5  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  0  0  0  0  2.5  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  0  0  0  0  2.5  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  0  0  0  0  2.5  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0 0 -2.5  0  0  0  0  0  2.5  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 0 -2.5  0  0  0  0  0  2.5 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 0 -2.5  0  0  0  0  0  2.5 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 0 -2.5  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 0 -2.5  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 0 -2.5  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 0 -2.5  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 0 -2.5  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 0 -2.5 ]
```

DHX =

```
[ 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ -2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 -2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 -2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 -2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2 2 ]
```

DHY =

```
[ 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 0 ]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -2.5 0 0 0 0 2.5 ]
```

### Case 6

```
NS = [ 3 , 3 ]
RES = [ 0.5 , 0.4 ]
BC = [ -2 , 0 ]
kinc = [ 2.2214 , 4.4429 ]
```

DEX =

```
[ -2 2 0 0 0 0 0 0 0 ]
[ 0 -2 2 0 0 0 0 0 0 ]
[ -2-0.38i 0 -2 0 0 0 0 0 0 ]
[ 0 0 0 -2 2 0 0 0 0 ]
[ 0 0 0 0 -2 2 0 0 0 ]
[ 0 0 0 0 0 -2 0 0 0 ]
[ 0 0 0 0 0 0 -2 0 0 ]
[ 0 0 0 0 0 0 0 -2 2 ]
[ 0 0 0 0 0 0 0 0 -2-0.38i 0 -2 ]
```

DEY =

```
[ -2.5  0  0  2.5  0  0  0  0  0 ]
[  0 -2.5  0  0  2.5  0  0  0  0 ]
[  0  0 -2.5  0  0  2.5  0  0  0 ]
[  0  0  0 -2.5  0  0  2.5  0  0 ]
[  0  0  0  0 -2.5  0  0  2.5  0 ]
[  0  0  0  0  0 -2.5  0  0  2.5 ]
[  0  0  0  0  0  0 -2.5  0  0 ]
[  0  0  0  0  0  0  0 -2.5  0 ]
[  0  0  0  0  0  0  0  0 -2.5 ]
```

DHX =

```
[  2  0  2-0.38i  0  0  0  0  0  0 ]
[ -2  2  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  2  0  2-0.38i  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0 -2  2  0  0 ]
[  0  0  0  0  0  0  2  0  2-0.38i ]
[  0  0  0  0  0  0  0 -2  0 ]
[  0  0  0  0  0  0  0  0 -2  2 ]
```

DHY =

```
[ 2.5  0  0  0  0  0  0  0  0 ]
[  0  2.5  0  0  0  0  0  0  0 ]
[  0  0  2.5  0  0  0  0  0  0 ]
[ -2.5  0  0  2.5  0  0  0  0  0 ]
[  0 -2.5  0  0  2.5  0  0  0  0 ]
[  0  0 -2.5  0  0  2.5  0  0  0 ]
[  0  0  0 -2.5  0  0  2.5  0  0 ]
[  0  0  0  0 -2.5  0  0  2.5  0 ]
[  0  0  0  0  0 -2.5  0  0  2.5 ]
```

### Case 7

```
NS = [ 3 , 3 ]
RES = [ 0.5 , 0.4 ]
BC = [ 0 , -2 ]
kinc = [ 2.2214 , 4.4429 ]
```

DEX =

```
[ -2  2  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0 ]
[  0  0 -2  0  0  0  0  0  0 ]
[  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0 -2  0  0  0 ]
[  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0 -2  2 ]
[  0  0  0  0  0  0  0  0 -2 ]
```

DEY =

```
[ -2.5  0  0  2.5  0  0  0  0  0 ]
[  0 -2.5  0  0  2.5  0  0  0  0 ]
[  0  0 -2.5  0  0  2.5  0  0  0 ]
[  0  0  0 -2.5  0  0  2.5  0  0 ]
[  0  0  0  0 -2.5  0  0  2.5  0 ]
[  0  0  0  0  0 -2.5  0  0  2.5 ]
[ 1.5-2i  0  0  0  0  0 -2.5  0  0 ]
[  0 1.5-2i  0  0  0  0  0 -2.5  0 ]
[  0  0 1.5-2i  0  0  0  0  0 -2.5 ]
```

DHX =

```
[ 2  0  0  0  0  0  0  0  0 ]
[ -2  2  0  0  0  0  0  0  0 ]
[ 0 -2  2  0  0  0  0  0  0 ]
[ 0  0  0  2  0  0  0  0  0 ]
[ 0  0  0 -2  2  0  0  0  0 ]
[ 0  0  0  0 -2  2  0  0  0 ]
[ 0  0  0  0  0  2  0  0  0 ]
[ 0  0  0  0  0  0 -2  2  0 ]
[ 0  0  0  0  0  0  0 -2  2 ]
```

DHY =

```
[ 2.5  0  0  0  0  0 -1.5-2i  0  0 ]
[  0  2.5  0  0  0  0  0 -1.5-2i  0 ]
[  0  0  2.5  0  0  0  0  0 -1.5-2i ]
[ -2.5  0  0  2.5  0  0  0  0  0 ]
[  0 -2.5  0  0  2.5  0  0  0  0 ]
[  0  0 -2.5  0  0  2.5  0  0  0 ]
[  0  0  0 -2.5  0  0  2.5  0  0 ]
[  0  0  0  0 -2.5  0  0  2.5  0 ]
[  0  0  0  0  0 -2.5  0  0  2.5 ]
```

### Case 8

```
NS = [ 3 , 5 ]
RES = [ 0.5 , 0.4 ]
BC = [ -2 , 0 ]
kinc = [ 2.2214 , 4.4429 ]
```

DEX =

```
[ -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[ -2-0.38i  0 -2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2-0.38i  0 -2  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2  0 -2  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2-0.38i  0 -2  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2  0 -2  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2-0.38i  0 -2  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2  0 -2  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2-0.38i  0 -2  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2-0.38i  0 -2 ]
```



DEY =

[	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	0	]
[	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	]
[	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	]
[	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	]
[	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	]
[	0	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	]
[	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	]
[	0	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	]
[	0	0	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	-2.5	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2.5	]

DHX =

[	2	0	2-0.381i	0	0	0	0	0	0	0	0	0	0	0	0	]
[	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2	0	2-0.381i	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	2	0	2-0.381i	0	0	0	0	0	0	]
[	0	0	0	0	0	0	-2	2	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2	2	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	2	0	2-0.381i	0	0	0	]
[	0	0	0	0	0	0	0	0	0	-2	2	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	-2	2	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2-0.381i	]
[	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	]

DHY =

[	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	]
[	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	0	]
[	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	]
[	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	]
[	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	]
[	0	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	]
[	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	]
[	0	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	]

### Case 9

NS = [ 3 , 5 ]  
 RES = [ 0.5 , 0.4 ]  
 BC = [ 0 , -2 ]  
 kinc = [ 2.2214 , 4.4429 ]

DEX =

```
[ -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2 ]
```

DEY =

```
[ -2.5  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2.5  0  0  2.5  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2.5  0  0  2.5  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2.5  0  0  2.5  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2.5  0  0  2.5  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2.5  0  0  2.5  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2.5  0  0  2.5  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2.5  0  0  2.5  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2.5  0  0  2.5  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2.5  0  0  2.5  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  2.5  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  2.5 ]
[ -2.1+1.31i  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2.1+1.31i  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2.1+1.31i  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2.1+1.31i  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2.1+1.31i  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2.1+1.31i  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2.1+1.31i  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2.1+1.31i  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2.1+1.31i  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2.1+1.31i  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2.1+1.31i  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2.1+1.31i  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2.1+1.31i  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2.1+1.31i  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2.1+1.31i ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2.5 ]
```

DHX =

```
[  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[ -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  2  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  2  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2 ]
```

DHY =

```
[  2.5  0  0  0  0  0  0  0  0  0  0  0  0  2.1+1.31i  0  0 ]
[  0  2.5  0  0  0  0  0  0  0  0  0  0  0  0  2.1+1.31i  0 ]
[  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0  0  2.1+1.31i ]
[ -2.5  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2.5  0  0  2.5  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2.5  0  0  2.5  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2.5  0  0  2.5  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2.5  0  0  2.5  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2.5  0  0  2.5  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2.5  0  0  2.5  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2.5  0  0  2.5  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2.5  0  0  2.5  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2.5  0  0  2.5  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  2.5  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  2.5  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  0  2.5 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2.5  0  2.5 ]
```

### Case 10

NS = [ 5 , 3 ]  
 RES = [ 0.5 , 0.4 ]  
 BC = [ -2 , 0 ]  
 kinc = [ 2.2214 , 4.4429 ]

DEX =

```
[ -2      2      0      0      0      0      0      0      0      0      0      0      0      0      0 ]
[  0     -2     -2     0     0     0     0     0     0     0     0     0     0     0     0 ]
[  0      0     -2     2     0     0     0     0     0     0     0     0     0     0     0 ]
[  0      0      0     -2     2     0     0     0     0     0     0     0     0     0     0 ]
[ 1.5-1.3i 0      0      0     -2     0     0     0     0     0     0     0     0     0     0 ]
[  0      0      0      0      0     -2     2     0     0     0     0     0     0     0     0 ]
[  0      0      0      0      0      0     -2     2     0     0     0     0     0     0     0 ]
[  0      0      0      0      0      0      0     -2     2     0     0     0     0     0     0 ]
[  0      0      0      0      0      0      0      0     -2     2     0     0     0     0     0 ]
[  0      0      0      0      0      0      0      0      0     -2     2     0     0     0     0 ]
[  0      0      0      0      0      0      0      0      0      0     -2     2     0     0     0 ]
[  0      0      0      0      0      0      0      0      0      0      0     -2     2     0     0 ]
[  0      0      0      0      0      0      0      0      0      0      0      0     -2     2     0 ]
[  0      0      0      0      0      0      0      0      0      0      0      0      0     -2     2 ]
[  0      0      0      0      0      0      0      0      0      0      0      0      0      0     -2 ]
```

DEY =

```
[ -2.5    0      0      0      0      2.5    0      0      0      0      0      0      0      0      0 ]
[  0     -2.5   0      0      0      0      2.5    0      0      0      0      0      0      0      0 ]
[  0      0     -2.5   0      0      0      0      2.5    0      0      0      0      0      0      0 ]
[  0      0      0     -2.5   0      0      0      0      2.5    0      0      0      0      0      0 ]
[  0      0      0      0     -2.5   0      0      0      0      2.5    0      0      0      0      0 ]
[  0      0      0      0      0     -2.5   0      0      0      0      2.5    0      0      0      0 ]
[  0      0      0      0      0      0     -2.5   0      0      0      0      2.5    0      0      0 ]
[  0      0      0      0      0      0      0     -2.5   0      0      0      0      2.5    0      0 ]
[  0      0      0      0      0      0      0      0     -2.5   0      0      0      0      2.5    0 ]
[  0      0      0      0      0      0      0      0      0     -2.5   0      0      0      0      2.5 ]
[  0      0      0      0      0      0      0      0      0      0     -2.5   0      0      0      0 ]
[  0      0      0      0      0      0      0      0      0      0      0     -2.5   0      0      0 ]
[  0      0      0      0      0      0      0      0      0      0      0      0     -2.5   0      0 ]
[  0      0      0      0      0      0      0      0      0      0      0      0      0     -2.5   0 ]
[  0      0      0      0      0      0      0      0      0      0      0      0      0      0     -2.5 ]
```

DHX =

```
[  2      0      0      0     -1.5-1.3i  0      0      0      0      0      0      0      0      0      0 ]
[ -2     -2     -2     0      0      0      0      0      0      0      0      0      0      0      0 ]
[  0      0     -2     2     0      0      0      0      0      0      0      0      0      0      0 ]
[  0      0      0     -2     2     0      0      0      0      0      0      0      0      0      0 ]
[  0      0      0      0     -2     2     0      0      0      0      0      0      0      0      0 ]
[  0      0      0      0      0     -2     2     0      0      0      0      0      0      0      0 ]
[  0      0      0      0      0      0     -2     2     0      0      0      0      0      0      0 ]
[  0      0      0      0      0      0      0     -2     2     0      0      0      0      0      0 ]
[  0      0      0      0      0      0      0      0     -2     2     0      0      0      0      0 ]
[  0      0      0      0      0      0      0      0      0     -2     2     0      0      0      0 ]
[  0      0      0      0      0      0      0      0      0      0     -2     2     0      0      0 ]
[  0      0      0      0      0      0      0      0      0      0      0     -2     2     0      0 ]
[  0      0      0      0      0      0      0      0      0      0      0      0     -2     2     0 ]
[  0      0      0      0      0      0      0      0      0      0      0      0      0     -2     2 ]
[  0      0      0      0      0      0      0      0      0      0      0      0      0      0     -2 ]
```

DHY =

```
[ 2.5    0      0      0      0      0      0      0      0      0      0      0      0      0      0 ]
[  0     2.5   0      0      0      0      0      0      0      0      0      0      0      0      0 ]
[  0      0     2.5   0      0      0      0      0      0      0      0      0      0      0      0 ]
[  0      0      0     2.5   0      0      0      0      0      0      0      0      0      0      0 ]
[ -2.5   0      0      0      0      2.5    0      0      0      0      0      0      0      0      0 ]
[  0     -2.5   0      0      0      0      2.5    0      0      0      0      0      0      0      0 ]
[  0      0     -2.5   0      0      0      0      2.5    0      0      0      0      0      0      0 ]
[  0      0      0     -2.5   0      0      0      0      2.5    0      0      0      0      0      0 ]
[  0      0      0      0     -2.5   0      0      0      0      2.5    0      0      0      0      0 ]
[  0      0      0      0      0     -2.5   0      0      0      0      2.5    0      0      0      0 ]
[  0      0      0      0      0      0     -2.5   0      0      0      0      2.5    0      0      0 ]
[  0      0      0      0      0      0      0     -2.5   0      0      0      0      2.5    0      0 ]
[  0      0      0      0      0      0      0      0     -2.5   0      0      0      0      2.5    0 ]
[  0      0      0      0      0      0      0      0      0     -2.5   0      0      0      0      2.5 ]
```

### Case 11

NS = [ 5 , 3 ]  
 RES = [ 0.5 , 0.4 ]  
 BC = [ 0 , -2 ]  
 kinc = [ 2.2214 , 4.4429 ]

DEX =

```
[ -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0  0 -2 ]
```

DEY =

```
[ -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0  0 ]
[  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0  0 ]
[  0  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0  0 ]
[  0  0  0 -2.5  0  0  0  0  2.5  0  0  0  0  0  0 ]
[  0  0  0  0 -2.5  0  0  0  0  2.5  0  0  0  0  0 ]
[  0  0  0  0  0 -2.5  0  0  0  0  2.5  0  0  0  0 ]
[  0  0  0  0  0  0 -2.5  0  0  0  0  2.5  0  0  0 ]
[  0  0  0  0  0  0  0 -2.5  0  0  0  0  2.5  0  0 ]
[  0  0  0  0  0  0  0  0 -2.5  0  0  0  0  2.5  0 ]
[  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  0  2.5 ]
[ 1.5-2i  0  0  0  0  0  0  0  0  0 -2.5  0  0  0  0 ]
[  0 1.5-2i  0  0  0  0  0  0  0  0  0 -2.5  0  0  0 ]
[  0  0 1.5-2i  0  0  0  0  0  0  0  0  0 -2.5  0  0 ]
[  0  0  0 1.5-2i  0  0  0  0  0  0  0  0  0 -2.5  0 ]
[  0  0  0  0 1.5-2i  0  0  0  0  0  0  0  0  0 -2.5 ]
```

DHX =

```
[  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[ -2  2  0  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0 -2  2  0  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0 -2  2  0  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0 -2  2  0  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0 -2  2  0  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0 -2  2  0  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0 -2  2  0  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0 -2  2  0  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0 -2  2  0  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0 -2  2  0  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0 -2  2  0  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0 -2  2  0  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0 -2  2  0 ]
[  0  0  0  0  0  0  0  0  0  0  0  0  0 -2  2 ]
```

DHY =

[	2.5	0	0	0	0	0	0	0	0	0	-1.5-2i	0	0	0	0	]
[	0	2.5	0	0	0	0	0	0	0	0	0	-1.5-2i	0	0	0	]
[	0	0	2.5	0	0	0	0	0	0	0	0	0	-1.5-2i	0	0	]
[	0	0	0	2.5	0	0	0	0	0	0	0	0	0	-1.5-2i	0	]
[	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	0	-1.5-2i	]
[	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	0	]
[	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	]
[	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	]
[	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	]
[	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	]
[	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	]
[	0	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	]
[	0	0	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	]
[	0	0	0	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	]
[	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	0	2.5	]

### Case 12

NS = [ 5 , 3 ]  
 RES = [ 0.5 , 0.4 ]  
 BC = [ -2 , -2 ]  
 kinc = [ 2.2214 , 4.4429 ]

DEX =

[	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	]
[	1.5-1.3i	0	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	-2	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	-2	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	-2	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	-2	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	-2	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	]

DEY =

[	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	]
[	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	]
[	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	]
[	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	]
[	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	]
[	0	0	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	]
[	1.5-2i	0	0	0	0	0	0	0	0	-2.5	0	0	0	0	0	0	]
[	0	1.5-2i	0	0	0	0	0	0	0	0	-2.5	0	0	0	0	0	]
[	0	0	1.5-2i	0	0	0	0	0	0	0	0	-2.5	0	0	0	0	]
[	0	0	0	1.5-2i	0	0	0	0	0	0	0	0	-2.5	0	0	0	]
[	0	0	0	0	1.5-2i	0	0	0	0	0	0	0	0	-2.5	0	0	]

DHX =

[	2	0	0	0	-1.5-1.3i	0	0	0	0	0	0	0	0	0	0	0	]
[	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	-2	0	0	0	-1.5-1.3i	0	0	0	0	0	0	]
[	0	0	0	0	0	0	-2	0	0	0	-2	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2	0	0	0	-2	0	0	0	0	]
[	0	0	0	0	0	0	0	0	-2	2	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	-2	0	0	0	-1.5-1.3i	0	]
[	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	]

DHY =

[	2.5	0	0	0	0	0	0	0	0	0	-1.5-2i	0	0	0	0	]
[	0	2.5	0	0	0	0	0	0	0	0	0	-1.5-2i	0	0	0	]
[	0	0	2.5	0	0	0	0	0	0	0	0	0	-1.5-2i	0	0	]
[	0	0	0	2.5	0	0	0	0	0	0	0	0	0	-1.5-2i	0	]
[	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	]
[	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	0	]
[	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	0	]
[	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	0	]
[	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	0	]
[	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	0	]
[	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	0	]
[	0	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	0	]
[	0	0	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	0	]
[	0	0	0	0	0	0	0	0	0	-2.5	0	0	0	2.5	0	]

### Case 13

NS = [ 3 , 5 ]  
 RES = [ 0.5 , 0.4 ]  
 BC = [ -2 , -2 ]  
 kinc = [ 2.2214 , 4.4429 ]

DEX =

[	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	-2-0.38i	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2	0	2	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2-0.38i	0	0	-2	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2	2	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2-0.38i	0	-2	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	-2	2	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	-2	2	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	-2-0.38i	0	-2	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	]
[	0	0	0	0	0	0	0	0	0	0	0	0	0	-2-0.38i	0	-2	]

DEY =

[	-2.5	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2.5	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	-2.5	0	2.5	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2.5	0	2.5	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	-2.5	0	2.5	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	-2.5	0	2.5	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	-2.5	0	2.5	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2.5	0	2.5	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	-2.5	0	2.5	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	-2.5	0	2.5	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	-2.5	0	2.5	0	0	0	]
[	-2.1+1.3i	0	0	0	0	0	0	0	0	0	0	-2.5	0	2.5	0	0	]
[	0	-2.1+1.3i	0	0	0	0	0	0	0	0	0	0	-2.5	0	2.5	0	]
[	0	0	-2.1+1.3i	0	0	0	0	0	0	0	0	0	0	-2.5	0	2.5	]

DHX =

[	2	0	2-0.38i	0	0	0	0	0	0	0	0	0	0	0	0	0	]		
[	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	]		
[	0	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	]		
[	0	0	0	2	0	2-0.38i	0	0	0	0	0	0	0	0	0	0	]		
[	0	0	0	0	-2	2	0	0	0	0	0	0	0	0	0	0	]		
[	0	0	0	0	0	0	2	0	2-0.38i	0	0	0	0	0	0	0	]		
[	0	0	0	0	0	0	0	-2	2	0	0	0	0	0	0	0	]		
[	0	0	0	0	0	0	0	0	0	-2	2	0	0	0	0	0	]		
[	0	0	0	0	0	0	0	0	0	0	0	-2	2	0	0	0	]		
[	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	0	]		
[	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	]	
[	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	]

DHY =

[	2.5	0	0	0	0	0	0	0	0	0	0	0	2.1+1.3i	0	0	0	]
[	0	2.5	0	0	0	0	0	0	0	0	0	0	0	2.1+1.3i	0	0	]
[	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	2.1+1.3i	0	]
[	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0	]
[	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	]
[	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	0	]
[	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	0	]
[	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	0	]
[	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	0	]
[	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	0	]
[	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	0	]
[	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	0	]
[	0	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	0	]
[	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	0	]
[	0	0	0	0	0	0	0	0	0	0	0	-2.5	0	0	2.5	0	]