

```
#####  
#####  
#####  
#####  
## File "slant_coefficients_for_he";
```

```
ter:=proc(A,B): H([ op(1,op(1,A)) +op(1,op(2,A))+1, op(2,op(1,A)) +op(2,op(2,A)) ],  
[ op(1,op(1,B)) +op(1,op(2,B)) , op(2,op(1,B)) +op(2,op(2,B))+1 ] ) end:
```

```
Ter:=proc(AA,BB): seq(seq( ter(op(kk1,AA),op(kk2,BB)), kk1=1..nops(AA)),kk2=1..nops(BB)) end:
```

```
reslant_0:=H([0,-1/2],[0,-1/2]):  
leslant_0:=H([-1/2,0],[-1/2,0]):
```

```
urslant:=proc(r): if r=1 then H([0,0],[0,0]) elif r>1 then  
[ Ter(urslant(r-1),reslant_0),seq(Ter(urslant(r-1-k),urslant(k)),k=1..r-2), Ter(leslant_0,urslant(r-1))] fi end:
```

```
## H([p1, q1], [p2, q2])  
## karslant:=proc(XX,YY): (-1)^(q1+q2-1)*(p1+p2)!(q1+q2)!/(p1+p2+q1+q2)!(p1*q2-(1+q1)*(1+p2)) end:
```

```
karslant:=proc(XX,YY): (-1)^(op(2,XX)+op(2,YY)-1)*  
(op(1,XX)+op(1,YY))!(op(2,XX)+op(2,YY))!  
/(op(1,XX)+op(1,YY)+op(2,XX)+op(2,YY))!  
(op(1,XX)*op(2,YY)-(1+op(2,XX))*(1+op(1,YY)))  
end:
```

```
seslant:=r->subs(H=karslant,urslant(r)); ## double click
```

```
#####  
#####  
#####  
#####
```

```
seslant_1:= ## A:=seslant(1): lprint(A);  
[1] : ##
```

```
seslant_2:= ## A:=seslant(2): lprint(A);  
[1, -1] : ##
```

```
seslant_3:= ## A:=seslant(3): lprint(A);  
[1, -1, 0, -1, 1] : ##
```

```
seslant_4:= ## A:=seslant(4): lprint(A);  
[1, -2/3, -2/3, -2/3, 1, 1/3, 1/3, -1/3, -1/3, -1, 2/3, 2/3, 2/3, -1] : ##
```

```
seslant_5:= ## A:=seslant(5): lprint(A);  
[1, -1/2, -1/2, -1/2, 1/2, -1/2, 1/2, -1/2, 1/2, 1/2, 1/2, -1, 1/2, 0, 0, 0, -1/2, 0, 1/2,  
-1/2, 0, -1/2, 0, 0, 0, 1/2, -1, 1/2, 1/2, 1/2, -1/2, 1/2, -1/2, 1/2, -1/2, 1/2, -1/2, -1/2, 1] : ##
```

```
seslant_6:= ## A:=seslant(6): lprint(A);  
[1, -2/5, -2/5, -2/5, 3/10, -2/5, 3/10, -2/5, 3/10, -2/5, 3/10, 3/10, -2/5, -2/5, 3/10, 3/10, 3/10, -2/5, -2/5,  
3/10, 3/10, -2/5, -2/5, 3/10, 3/10, 3/10, -2/5, -2/5, 3/10, 3/10, 3/10, -2/5, 3/10, -2/5, 3/10, -2/5, -2/5, -2/5,  
1, 3/5, -1/10, -1/10, -1/10, -1/10, -1/10, -1/10, -1/10, -1/10, -1/10, -1/10, -1/10, -1/10, 3/5, 1/5, 1/5, 1/5, 1/5,  
-1/2, -1/2, 1/5, 1/5, 1/5, 1/5, -1/5, 1/2, -1/5, -1/5, -1/5, -1/5, -1/5, -1/5, 1/2, -1/5, -3/5, 1/10, 1/10, 1/10, 1/10, 1/10,  
1/10, 1/10, 1/10, 1/10, 1/10, 1/10, 1/10, -3/5, -1, 2/5, 2/5, 2/5, -3/10, 2/5, -3/10, 2/5, -3/10, 2/5, -3/10, -3/10,  
-3/10, 2/5, 2/5, -3/10, -3/10, -3/10, 2/5, 2/5, -3/10, -3/10, 2/5, 2/5, -3/10, -3/10, -3/10, 2/5, 2/5, -3/10, -3/10, -3/10,  
2/5, -3/10, 2/5, -3/10, 2/5, -3/10, 2/5, 2/5, 2/5, -1] : ##
```

```
seslant_7:= ## A:=seslant(7): lprint(A);  
[1, -1/3, -1/3, -1/3, 1/5, -1/3, 1/5, -1/3, 1/5, -1/3, 1/5, 1/5, 1/5, -1/5, -1/3, 1/5, 1/5, 1/5, -1/5, -1/3, 1/5, 1/5, -1/5,  
-1/3, 1/5, 1/5, 1/5, -1/5, -1/3, 1/5, 1/5, 1/5, -1/5, 1/5, -1/5, 1/5, -1/5, -1/5, 1/3, -1/3, 1/5, 1/5, 1/5, -1/5, -1/5, -1/5, 1/3, -1/3,  
1/5, 1/5, -1/5, 1/5, -1/5, 1/5, -1/5, -1/5, 1/3, -1/3, 1/5, 1/5, 1/5, -1/5, 1/5, -1/5, -1/5, -1/5, 1/3, -1/3,  
1/3, -1/3, 1/5, 1/5, 1/5, -1/5, 1/5, -1/5, 1/5, -1/5, 1/5, -1/5, -1/5, 1/3, 1/5, -1/5, -1/5, -1/5, 1/3, 1/5, -1/5, -1/5,  
-1/5, 1/3, 1/5, -1/5, -1/5, -1/5, 1/3, 1/5, -1/5, -1/5, -1/5, 1/3, -1/5, 1/3, -1/5, 1/3, -1/5, 1/3, 1/3, -1, 2/3,  
-2/15, -2/15, -2/15, 0, -2/15, 0, -2/15, 0, -2/15, 0, 0, 0, 2/15, -2/15, 0, 0, 0, 2/15, -2/15, 0, 0, 2/15, -2/15, 0, 0,  
0, 2/15, -2/15, 0, 0, 0, 2/15, 0, 2/15, 0, 2/15, 0, 2/15, 2/15, 2/15, -2/3, 1/3, 1/15, 1/15, 1/15, -1/5, 1/15, -1/5, 1/15,  
-1/5, 1/15, -1/5, -1/5, -1/5, 7/15, -7/15, 1/5, 1/5, 1/5, -1/15, 1/5, -1/15, 1/5, -1/15, 1/5, -1/15, -1/15, -1/15, -1/3,  
0, 4/15, 4/15, 4/15, -2/5, -4/15, 0, 0, 0, 4/15, -4/15, 0, 0, 0, 4/15, -4/15, 0, 0, 0, 4/15, 2/5, -4/15, -4/15, -4/15,  
0, -1/3, 7/15, -1/15, -1/5, -1/15, -1/5, -1/15, -1/5, 1/5, 1/15, -1/15, -1/5, 1/5, 1/15, -1/15, -1/5, 1/5, 1/15, -1/15,  
-1/5, 1/5, 1/15, 1/5, 1/15, 1/5, 1/15, -7/15, 1/3, -2/3, 2/15, 2/15, 2/15, 0, 2/15, 0, 2/15, 0, 2/15, 0, 0, 0, -2/15, 2/15,  
0, 0, 0, -2/15, 2/15, 0, 0, -2/15, 2/15, 0, 0, 0, -2/15, 2/15, 0, 0, 0, -2/15, 0, -2/15, 0, -2/15, -2/15,
```


