# Table # initial

pots:

pot #0: symbol  $b_2$ : [0, inf)symbol  $b_1$ : [0, inf)

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$b_1$	$a_{11}$	$a_{12}$	1	0
$x_3$	$b_2$	$a_{21}$	$a_{22}$	0	1
Ψ	0	$c_1$	$c_2$	0	0

Table #0

Moving out basis:  $x_2$  from line: 0

Moving to basis:  $x_0$ 

pots: pot #0:

symbol  $b_2 : [0, inf)$ symbol  $a_{11} : (0, inf)$ symbol  $b_1 : [0, inf)$ symbol  $c_1 : (-inf, 0)$ 

symbol  $a_{21}:(0,inf)$ 

 $-c_1+c_2\geqslant 0$ 

 $a_{11}b_2 - a_{21}b_1 \geqslant 0$ 

pot #1:

 $\begin{array}{l} \text{symbol } b_2: [0, inf) \\ \text{symbol } a_{11}: (0, inf) \\ \text{symbol } b_1: [0, inf) \\ \text{symbol } c_1: (-inf, 0) \\ \text{symbol } a_{21}: (-inf, 0] \end{array}$ 

 $-c_1 + c_2 \geqslant 0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_0$	$\frac{b_1}{a_{11}}$	1	$\frac{a_{12}}{a_{11}}$	$\frac{1}{a_{11}}$	0
$x_3$	$b_2 - \frac{a_{21}b_1}{a_{11}}$	0	$a_{22} - \frac{a_{12}a_{21}}{a_{11}}$	$-\frac{a_{21}}{a_{11}}$	1
Ψ	$-\frac{b_{1}c_{1}}{a_{11}}$	0	$c_2 - \frac{a_{12}c_1}{a_{11}}$	$-\frac{c_1}{a_{11}}$	0

```
Table \#0.0
Moving out basis: x_0 from line: 0
Moving to basis: x_1
pots:
pot #0:
symbol b_2: [0, inf)
symbol a_{11}:(0,inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{21}:(0,inf)
symbol a_{12}:(0,inf)
-c_1 + c_2 \geqslant 0
a_{11}b_2 - a_{21}b_1 \geqslant 0
-a_{11}c_2 + a_{12}c_1 > 0
a_{11}a_{22} - a_{12}a_{21} > 0
a_{12}b_2 - a_{22}b_1 \geqslant 0
a_{11}a_{22} - a_{12}a_{21}0
pot #1:
symbol b_2:[0,inf)
symbol a_{11}:(0,inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{21}:(0,inf)
symbol a_{12}:(0, inf)
-c_1 + c_2 \geqslant 0
a_{11}b_2 - a_{21}b_1 \geqslant 0
-a_{11}c_2 + a_{12}c_1 > 0
-a_{11}a_{22} + a_{12}a_{21} \geqslant 0
pot #2:
symbol b_2: [0, inf)
symbol a_{11}: (0, inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{21}: (-inf, 0]
symbol a_{12}:(0,inf)
-c_1 + c_2 \geqslant 0
-a_{11}c_2 + a_{12}c_1 > 0
a_{11}a_{22} - a_{12}a_{21} > 0
a_{12}b_2 - a_{22}b_1 \geqslant 0
a_{11}a_{22} - a_{12}a_{21}0
pot #3:
symbol b_2: [0, inf)
symbol a_{11}:(0,inf)
symbol b_1:[0,inf)
symbol c_1: (-inf, 0)
symbol a_{21}: (-inf, 0]
symbol a_{12}:(0, inf)
-c_1 + c_2 \geqslant 0
```

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

$\alpha_{11}\alpha_{22} + \alpha_{12}\alpha_{21} \gg 0$	$-a_{11}a_{22}$	+	$a_{12}a_{21}$	$\geqslant$	0
---	-----------------	---	----------------	-------------	---

		$x_0$	$x_1$	$x_2$	$x_3$
$x_1$	$\frac{b_1}{a_{12}}$	$\frac{a_{11}}{a_{12}}$	1	$\frac{1}{a_{12}}$	0
$x_3$	$\frac{a_{12}b_2 - a_{22}b_1}{a_{12}}$	$\frac{-a_{11}a_{22} + a_{12}a_{21}}{a_{12}}$	0	$-\frac{a_{22}}{a_{12}}$	1
Ψ	$-\frac{b_1c_2}{a_{12}}$	$\frac{-a_{11}c_2 + a_{12}c_1}{a_{12}}$	0	$-\frac{c_2}{a_{12}}$	0

$$x_0 = 0$$

$$x_1 = \frac{b_1}{a_1}$$

$$x_2 = 0$$

Solution:  

$$x_0 = 0$$

$$x_1 = \frac{b_1}{a_{12}}$$

$$x_2 = 0$$

$$x_3 = \frac{a_{12}b_2 - a_{22}b_1}{a_{12}}$$

$$\Psi = -\frac{b_1c_2}{a_{12}}$$

$$\Psi = -\frac{b_1c}{c}$$

# Table #0.1Moving out basis: $x_3$ from line: 1 Moving to basis: $x_1$ pots: pot #0: symbol $b_2: [0, inf)$ symbol $a_{11}:(0,inf)$ symbol $b_1: [0, inf)$ symbol $c_1: (-inf, 0)$ symbol $a_{21}:(0,inf)$ symbol $a_{12}:(0,inf)$ $-c_1 + c_2 \geqslant 0$ $a_{11}b_2 - a_{21}b_1 \geqslant 0$ $-a_{11}c_2 + a_{12}c_1 > 0$ $a_{11}a_{22} - a_{12}a_{21} > 0$ $-a_{12}b_2 + a_{22}b_1 \geqslant 0$ $a_{11}a_{22} - a_{12}a_{21}0$ pot #1: symbol $b_2:[0,inf)$ symbol $a_{11}: (0, inf)$ symbol $b_1:[0,inf)$ symbol $c_1: (-inf, 0)$ symbol $a_{21}:(0,inf)$ symbol $a_{12}: (-inf, 0]$ $-c_1 + c_2 \geqslant 0$ $a_{11}b_2 - a_{21}b_1 \geqslant 0$ $-a_{11}c_2 + a_{12}c_1 > 0$ $a_{11}a_{22} - a_{12}a_{21} > 0$ pot #2: symbol $b_2: [0, inf)$

symbol  $a_{11}: (0, inf)$ symbol  $b_1: [0, inf)$ symbol  $c_1: (-inf, 0)$ symbol  $a_{21}: (-inf, 0]$ symbol  $a_{12}: (0, inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

pot #3:

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$   $a_{11}a_{22} - a_{12}a_{21} > 0$   $-a_{12}b_2 + a_{22}b_1 \geqslant 0$   $a_{11}a_{22} - a_{12}a_{21}0$ 

symbol  $b_2$ : [0, inf)symbol  $a_{11}$ : (0, inf)symbol  $b_1$ : [0, inf)symbol  $c_1$ : (-inf, 0)symbol  $a_{21}$ : (-inf, 0]symbol  $a_{12}$ : (-inf, 0]

## $a_{11}a_{22} - a_{12}a_{21} > 0$

		$x_0$	$x_1$	$x_2$	$x_3$
$x_0$	$\frac{-a_{12}b_2 + a_{22}b_1}{a_{11}a_{22} - a_{12}a_{21}}$	1	0	$\frac{a_{22}}{a_{11}a_{22} - a_{12}a_{21}}$	$\frac{a_{12}}{-a_{11}a_{22} + a_{12}a_{21}}$
$x_1$	$\frac{a_{11}b_2 - a_{21}b_1}{a_{11}a_{22} - a_{12}a_{21}}$	0	1	$\frac{a_{21}}{-a_{11}a_{22} + a_{12}a_{21}}$	$\frac{a_{11}}{a_{11}a_{22} - a_{12}a_{21}}$
Ψ	$\frac{-a_{11}b_{2}c_{2} + a_{12}b_{2}c_{1} + a_{21}b_{1}c_{2} - a_{22}b_{1}c_{1}}{a_{11}a_{22} - a_{12}a_{21}}$	0	0	$\frac{a_{21}c_2 - a_{22}c_1}{a_{11}a_{22} - a_{12}a_{21}}$	$\frac{-a_{11}c_2 + a_{12}c_1}{a_{11}a_{22} - a_{12}a_{21}}$

## Table #0.1.0

Moving out basis:  $x_0$  from line: 0

Moving to basis:  $x_2$ 

#### pots:

pot #0:

symbol  $b_2: [0, inf)$ 

symbol  $a_{11}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $a_{12}:(0,inf)$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $a_{11}b_2 - a_{21}b_1 \geqslant 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21} > 0$ 

 $-a_{12}b_2 + a_{22}b_1 \geqslant 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

pot #1:

symbol  $b_2: [0, inf)$ 

symbol  $a_{11}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{21}: (-inf, 0)$ 

symbol  $a_{12}: (-inf, 0]$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21} > 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$\frac{-a_{12}b_2 + a_{22}b_1}{a_{22}}$	$\frac{a_{11}a_{22} - a_{12}a_{21}}{a_{22}}$	0	1	$-\frac{a_{12}}{a_{22}}$
$x_1$	$\frac{b_2}{a_{22}}$	$\frac{a_{21}}{a_{22}}$	1	0	$\frac{1}{a_{22}}$
Ψ	$-\frac{b_2c_2}{a_{22}}$	$\frac{-a_{21}c_2 + a_{22}c_1}{a_{22}}$	0	0	$-\frac{c_2}{a_{22}}$

Table #0.1.0.0

Moving out basis:  $x_2$  from line: 0

Moving to basis:  $x_3$ 

pots: pot #0:

symbol  $b_2: [0, inf)$ 

symbol  $a_{11}:(0,inf)$ 

symbol  $b_1:0$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{21}:(-inf,0)$ 

symbol  $c_2:(0,inf)$ 

symbol  $a_{12}:(-inf,0)$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21} > 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_3$	$\frac{a_{12}b_2 - a_{22}b_1}{a_{12}}$	$\frac{-a_{11}a_{22} + a_{12}a_{21}}{a_{12}}$	0	$-\frac{a_{22}}{a_{12}}$	1
$x_1$	$\frac{b_1}{a_{12}}$	$\frac{a_{11}}{a_{12}}$	1	$\frac{1}{a_{12}}$	0
Ψ	$-\frac{b_1c_2}{a_{12}}$	$\frac{-a_{11}c_2 + a_{12}c_1}{a_{12}}$	0	$-\frac{c_2}{a_{12}}$	0

## Table #0.1.0.1

Moving out basis:  $x_1$  from line: 1

Moving to basis:  $x_3$ 

pots:

pot #0:

symbol  $b_2: [0, inf)$ 

symbol  $a_{11}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{21}: (-inf, 0)$ 

symbol  $c_2:(0,inf)$ 

symbol  $a_{12}: (-inf, 0)$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21} > 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$b_1$	$a_{11}$	$a_{12}$	1	0
$x_3$	$b_2$	$a_{21}$	$a_{22}$	0	1
Ψ	0	$c_1$	$c_2$	0	0

# Table #0.1.0.-1

pots: pot #0:

symbol  $b_2: [0, inf)$ symbol  $a_{11}:(0,inf)$ symbol  $b_1:[0,inf)$ symbol  $c_1: (-inf, 0)$ symbol  $a_{21}:(0,inf)$ symbol  $c_2: (-inf, 0]$ symbol  $a_{12}:(0,inf)$ symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $a_{11}b_2 - a_{21}b_1 \geqslant 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21} > 0$ 

 $-a_{12}b_2 + a_{22}b_1 \geqslant 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$\frac{-a_{12}b_2 + a_{22}b_1}{a_{22}}$	$\frac{a_{11}a_{22} - a_{12}a_{21}}{a_{22}}$	0	1	$-\frac{a_{12}}{a_{22}}$
$x_1$	$\frac{b_2}{a_{22}}$	$\frac{a_{21}}{a_{22}}$	1	0	$\frac{1}{a_{22}}$
Ψ	$-\frac{b_{2}c_{2}}{a_{22}}$	$\frac{-a_{21}c_2 + a_{22}c_1}{a_{22}}$	0	0	$-\frac{c_2}{a_{22}}$

## Table #0.1.1

Moving out basis:  $x_1$  from line: 1

Moving to basis:  $x_2$ 

pots: pot #0:

symbol  $b_2: [0, inf)$ 

symbol  $a_{11}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{21}:(-inf,0)$ 

symbol  $a_{12}:(0,inf)$ 

symbol  $a_{22}: (-inf, 0]$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21} > 0$ 

 $-a_{12}b_2 + a_{22}b_1 \geqslant 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

pot #1:

symbol  $b_2:0$ 

symbol  $a_{11}: (0, inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{21}:(-inf,0)$ 

symbol  $a_{12}: (-inf, 0]$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21} > 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_0$	$\frac{b_2}{a_{21}}$	1	$\frac{a_{22}}{a_{21}}$	0	$\frac{1}{a_{21}}$
$x_2$	$\frac{-a_{11}b_2 + a_{21}b_1}{a_{21}}$	0	$\frac{-a_{11}a_{22} + a_{12}a_{21}}{a_{21}}$	1	$-\frac{a_{11}}{a_{21}}$
Ψ	$-rac{b_{2}c_{1}}{a_{21}}$	0	$\frac{a_{21}c_2 - a_{22}c_1}{a_{21}}$	0	$-\frac{c_1}{a_{21}}$

## Table #0.1.1.1

Moving out basis:  $x_2$  from line: 1

Moving to basis:  $x_3$ 

pots: pot #0: symbol  $b_2: [0, inf)$ symbol  $a_{11}:(0,inf)$ symbol  $b_1: [0, inf)$ symbol  $c_1: (-inf, 0)$ symbol  $a_{21}: (-inf, 0)$ symbol  $a_{12}:(0,inf)$ symbol  $a_{22}: (-inf, 0]$  $-c_1 + c_2 \geqslant 0$  $-a_{11}c_2 + a_{12}c_1 > 0$  $a_{11}a_{22} - a_{12}a_{21} > 0$  $-a_{12}b_2 + a_{22}b_1 \geqslant 0$  $a_{11}a_{22} - a_{12}a_{21}0$  $-a_{21}c_2 + a_{22}c_1 > 0$  $-a_{11}a_{22} + a_{12}a_{21}0$ pot #1: symbol  $b_2:0$ symbol  $a_{11}: (0, inf)$ symbol  $b_1: [0, inf)$ symbol  $c_1: (-inf, 0)$ symbol  $a_{21}:(-inf,0)$ 

symbol  $a_{21}: (-inf, 0)$ symbol  $a_{12}: (-inf, 0]$ symbol  $a_{22}: (0, inf)$   $-c_1 + c_2 \ge 0$  $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21} > 0$  $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_0$	$\frac{b_1}{a_{11}}$	1	$\frac{a_{12}}{a_{11}}$	$\frac{1}{a_{11}}$	0
$x_3$	$\frac{a_{11}b_2 - a_{21}b_1}{a_{11}}$	0	$\frac{a_{11}a_{22} - a_{12}a_{21}}{a_{11}}$	$-\frac{a_{21}}{a_{11}}$	1
Ψ	$-\frac{b_{1}c_{1}}{a_{11}}$	0	$\frac{a_{11}c_2 - a_{12}c_1}{a_{11}}$	$-\frac{c_1}{a_{11}}$	0

# Table #0.1.-1

```
pots:
pot #0:
symbol b_2: [0, inf)
symbol a_{11}: (0, inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{21}:(0,inf)
symbol a_{12}:(0,inf)
-c_1 + c_2 \geqslant 0
a_{11}b_2 - a_{21}b_1 \geqslant 0
-a_{11}c_2 + a_{12}c_1 > 0
a_{11}a_{22} - a_{12}a_{21} > 0
-a_{12}b_2 + a_{22}b_1 \geqslant 0
a_{11}a_{22} - a_{12}a_{21}0
a_{21}c_2 - a_{22}c_1 \geqslant 0
pot #1:
symbol b_2: [0, inf)
symbol a_{11}:(0,inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{21}: (0, inf)
symbol a_{12}: (-inf, 0]
-c_1 + c_2 \geqslant 0
a_{11}b_2 - a_{21}b_1 \geqslant 0
-a_{11}c_2 + a_{12}c_1 > 0
a_{11}a_{22} - a_{12}a_{21} > 0
a_{21}c_2 - a_{22}c_1 \geqslant 0
a_{11}a_{22} - a_{12}a_{21}0
pot #2:
symbol b_2: [0, inf)
symbol a_{11}: (0, inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{21}: (-inf, 0]
symbol a_{12}:(0, inf)
-c_1 + c_2 \geqslant 0
-a_{11}c_2 + a_{12}c_1 > 0
a_{11}a_{22} - a_{12}a_{21} > 0
-a_{12}b_2 + a_{22}b_1 \geqslant 0
a_{11}a_{22} - a_{12}a_{21}0
a_{21}c_2 - a_{22}c_1 \geqslant 0
pot #3:
symbol b_2: [0, inf)
symbol a_{11}:(0,inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{21}: (-inf, 0]
symbol a_{12}: (-inf, 0]
-c_1 + c_2 \geqslant 0
```

$$-a_{11}c_2 + a_{12}c_1 > 0$$

$$a_{11}a_{22} - a_{12}a_{21} > 0$$

$$a_{21}c_2 - a_{22}c_1 \geqslant 0$$

$$a_{11}a_{22} - a_{12}a_{21}0$$

		$x_0$	$x_1$	$x_2$	$x_3$
$x_0$	$\frac{-a_{12}b_2 + a_{22}b_1}{a_{11}a_{22} - a_{12}a_{21}}$	1	0	$\frac{a_{22}}{a_{11}a_{22} - a_{12}a_{21}}$	$\frac{a_{12}}{-a_{11}a_{22} + a_{12}a_{21}}$
$x_1$	$\frac{a_{11}b_2 - a_{21}b_1}{a_{11}a_{22} - a_{12}a_{21}}$	0	1	$\frac{a_{21}}{-a_{11}a_{22} + a_{12}a_{21}}$	$\frac{a_{11}}{a_{11}a_{22} - a_{12}a_{21}}$
Ψ	$\frac{-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1}{a_{11}a_{22} - a_{12}a_{21}}$	0	0	$\frac{a_{21}c_2 - a_{22}c_1}{a_{11}a_{22} - a_{12}a_{21}}$	$\frac{-a_{11}c_2 + a_{12}c_1}{a_{11}a_{22} - a_{12}a_{21}}$

Solution:  

$$x_0 = \frac{-a_{12}b_2 + a_{22}b_1}{a_{11}a_{22} - a_{12}a_{21}}$$

$$x_1 = \frac{a_{11}b_2 - a_{21}b_1}{a_{11}a_{22} - a_{12}a_{21}}$$

$$x_2 = 0$$

$$x_3 = 0$$

$$\Psi = \frac{-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1}{a_{11}a_{22} - a_{12}a_{21}}$$

# Table #0.-1

pots:

pot #0:

symbol  $b_2: [0, inf)$ symbol  $a_{11}:(0,inf)$ symbol  $b_1: [0, inf)$ symbol  $c_1: (-inf, 0)$ 

symbol  $a_{21}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $a_{11}b_2 - a_{21}b_1 \geqslant 0$ 

 $a_{11}c_2 - a_{12}c_1 \geqslant 0$ 

pot #1:

symbol  $b_2: [0, inf)$ symbol  $a_{11}:(0,inf)$ symbol  $b_1:[0,inf)$ symbol  $c_1: (-inf, 0)$ symbol  $a_{21}: (-inf, 0]$ 

 $-c_1 + c_2 \geqslant 0$ 

 $a_{11}c_2 - a_{12}c_1 \geqslant 0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_0$	$\frac{b_1}{a_{11}}$	1	$\frac{a_{12}}{a_{11}}$	$\frac{1}{a_{11}}$	0
$x_3$	$b_2 - \frac{a_{21}b_1}{a_{11}}$	0	$a_{22} - \frac{a_{12}a_{21}}{a_{11}}$	$-\frac{a_{21}}{a_{11}}$	1
Ψ	$-\frac{b_{1}c_{1}}{a_{11}}$	0	$c_2 - \frac{a_{12}c_1}{a_{11}}$	$-\frac{c_1}{a_{11}}$	0

$$x_0 = \frac{b_1}{a_{11}}$$

$$x_1 = 0$$

$$x_2 = 0$$

$$x_3 = b_2 - \frac{a_{21}b_1}{a_{11}}$$

$$\Psi = -\frac{b_1c_1}{a_{11}}$$

$$\Psi = -\frac{b_1 c_1}{a_{11}}$$

# Table #1

Moving out basis:  $x_3$  from line: 1

Moving to basis:  $x_0$ 

pots:

pot #0:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}b_2 + a_{21}b_1 \geqslant 0$ 

pot #1:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}: (-inf, 0]$ 

 $-c_1 + c_2 \geqslant 0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$-\frac{a_{11}b_2-a_{21}b_1}{a_{21}}$	0	$-\frac{a_{11}a_{22}-a_{12}a_{21}}{a_{21}}$	1	$-\frac{a_{11}}{a_{21}}$
$x_0$	$\frac{b_2}{a_{21}}$	1	$\frac{a_{22}}{a_{21}}$	0	$\frac{1}{a_{21}}$
Ψ	$-\frac{b_2c_1}{a_{21}}$	0	$c_2 - \frac{a_{22}c_1}{a_{21}}$	0	$-\frac{c_1}{a_{21}}$

## Table #1.0Moving out basis: $x_2$ from line: 0 Moving to basis: $x_1$ pots: pot #0: symbol $b_2: [0, inf)$ symbol $a_{21}:(0,inf)$ symbol $b_1: [0, inf)$ symbol $c_1: (-inf, 0)$ symbol $a_{11}:(0,inf)$ symbol $a_{22}:(0,inf)$ $-c_1 + c_2 \geqslant 0$ $-a_{11}b_2 + a_{21}b_1 \geqslant 0$ $-a_{21}c_2 + a_{22}c_1 > 0$ $-a_{11}a_{22} + a_{12}a_{21} > 0$ $a_{12}b_2 - a_{22}b_1 \geqslant 0$ $a_{11}a_{22} - a_{12}a_{21}0$ pot #1: symbol $b_2:[0,inf)$ symbol $a_{21}: (0, inf)$ symbol $b_1: [0, inf)$ symbol $c_1: (-inf, 0)$ symbol $a_{11}:(0,inf)$ symbol $a_{22}: (-inf, 0]$ $-c_1 + c_2 \geqslant 0$ $-a_{11}b_2 + a_{21}b_1 \geqslant 0$ $-a_{21}c_2 + a_{22}c_1 > 0$ $-a_{11}a_{22} + a_{12}a_{21} > 0$ pot #2: symbol $b_2: [0, inf)$ symbol $a_{21}: (0, inf)$ symbol $b_1: [0, inf)$ symbol $c_1: (-inf, 0)$ symbol $a_{11}: (-inf, 0]$ symbol $a_{22}:(0,inf)$ $-c_1 + c_2 \geqslant 0$ $-a_{21}c_2 + a_{22}c_1 > 0$ $-a_{11}a_{22} + a_{12}a_{21} > 0$ $a_{12}b_2 - a_{22}b_1 \geqslant 0$ $a_{11}a_{22} - a_{12}a_{21}0$ pot #3: symbol $b_2: [0, inf)$ symbol $a_{21}:(0,inf)$

symbol  $b_1 : [0, inf)$ symbol  $c_1 : (-inf, 0)$ symbol  $a_{11} : (-inf, 0]$ symbol  $a_{22} : (-inf, 0]$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-c_1 + c_2 \geqslant 0$ 

## $-a_{11}a_{22} + a_{12}a_{21} > 0$

		$x_0$	$x_1$	$x_2$	$x_3$
$x_1$	$\frac{a_{11}b_2 - a_{21}b_1}{a_{11}a_{22} - a_{12}a_{21}}$	0	1	$\frac{a_{21}}{-a_{11}a_{22} + a_{12}a_{21}}$	$\frac{a_{11}}{a_{11}a_{22} - a_{12}a_{21}}$
$x_0$	$\frac{-a_{12}b_2 + a_{22}b_1}{a_{11}a_{22} - a_{12}a_{21}}$	1	0	$\frac{a_{22}}{a_{11}a_{22} - a_{12}a_{21}}$	$\frac{a_{12}}{-a_{11}a_{22} + a_{12}a_{21}}$
Ψ	$\frac{-a_{11}b_{2}c_{2} + a_{12}b_{2}c_{1} + a_{21}b_{1}c_{2} - a_{22}b_{1}c_{1}}{a_{11}a_{22} - a_{12}a_{21}}$	0	0	$\frac{a_{21}c_2 - a_{22}c_1}{a_{11}a_{22} - a_{12}a_{21}}$	$\frac{-a_{11}c_2 + a_{12}c_1}{a_{11}a_{22} - a_{12}a_{21}}$

# Table #1.0.0

Moving out basis:  $x_1$  from line: 0

Moving to basis:  $x_3$ 

#### pots:

pot #0:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}: (0, inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}: (-inf, 0)$ 

symbol  $a_{12}: (-inf, 0]$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $a_{12}b_2 - a_{22}b_1 \geqslant 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

pot #1:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1:0$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}:(-inf,0)$ 

symbol  $a_{12}:(0, inf)$ 

symbol  $a_{22}: (-inf, 0]$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_3$	$\frac{a_{11}b_2 - a_{21}b_1}{a_{11}}$	0	$\frac{a_{11}a_{22} - a_{12}a_{21}}{a_{11}}$	$-\frac{a_{21}}{a_{11}}$	1
$x_0$	$\frac{b_1}{a_{11}}$	1	$\frac{a_{12}}{a_{11}}$	$\frac{1}{a_{11}}$	0
Ψ	$-\frac{b_{1}c_{1}}{a_{11}}$	0	$\frac{a_{11}c_2 - a_{12}c_1}{a_{11}}$	$-\frac{c_1}{a_{11}}$	0

Table #1.0.0.0

Moving out basis:  $x_3$  from line: 0

Moving to basis:  $x_2$ 

pots: pot #0:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}:(-inf,0)$ 

symbol  $a_{12}: (-inf, 0]$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $a_{12}b_2 - a_{22}b_1 \geqslant 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

pot #1:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1:0$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}:(-inf,0)$ 

symbol  $a_{12}:(0, inf)$ 

symbol  $a_{22}: (-inf, 0]$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$\frac{-a_{11}b_2 + a_{21}b_1}{a_{21}}$	0	$\frac{-a_{11}a_{22} + a_{12}a_{21}}{a_{21}}$	1	$-\frac{a_{11}}{a_{21}}$
$x_0$	$\frac{b_2}{a_{21}}$	1	$\frac{a_{22}}{a_{21}}$	0	$\frac{1}{a_{21}}$
Ψ	$-\frac{b_{2}c_{1}}{a_{21}}$	0	$\frac{a_{21}c_2 - a_{22}c_1}{a_{21}}$	0	$-\frac{c_1}{a_{21}}$

## Table #1.0.1

Moving out basis:  $x_0$  from line: 1

Moving to basis:  $x_3$ 

#### pots:

pot #0:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}: (0, inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}: (0, inf)$ 

symbol  $a_{12}:(0,inf)$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}b_2 + a_{21}b_1 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $a_{12}b_2 - a_{22}b_1 \geqslant 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

pot #1:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}:(-inf,0)$ 

symbol  $a_{12}:(0,inf)$ 

symbol  $a_{22}: (-inf, 0]$ 

symbol  $a_{22}$  . (-inj) $-c_1 + c_2 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_1$	$\frac{b_1}{a_{12}}$	$\frac{a_{11}}{a_{12}}$	1	$\frac{1}{a_{12}}$	0
$x_3$	$\frac{a_{12}b_2 - a_{22}b_1}{a_{12}}$	$\frac{-a_{11}a_{22} + a_{12}a_{21}}{a_{12}}$	0	$-\frac{a_{22}}{a_{12}}$	1
Ψ	$-\frac{b_1c_2}{a_{12}}$	$\frac{-a_{11}c_2 + a_{12}c_1}{a_{12}}$	0	$-\frac{c_2}{a_{12}}$	0

## Table #1.0.1.0

Moving out basis:  $x_1$  from line: 0

Moving to basis:  $x_2$ 

pots:

pot #0:

symbol  $b_2$  : [0, inf)

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}:(-inf,0)$ 

symbol  $c_2:(0,inf)$ 

symbol  $a_{12}:(0,inf)$ 

symbol  $a_{22}:(-inf,0)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$b_1$	$a_{11}$	$a_{12}$	1	0
$x_3$	$b_2$	$a_{21}$	$a_{22}$	0	1
Ψ	0	$c_1$	$c_2$	0	0

# Table #1.0.1.1

Moving out basis:  $x_3$  from line: 1

Moving to basis:  $x_2$ 

pots: pot #0:

symbol  $b_2:0$ 

symbol  $a_{21}: (0, inf)$ symbol  $b_1: [0, inf)$ symbol  $c_1: (-inf, 0)$ symbol  $a_{11}: (-inf, 0)$ symbol  $c_2: (0, inf)$ symbol  $a_{12}: (0, inf)$ 

symbol  $a_{22}:(-inf,0)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_1$	$\frac{b_2}{a_{22}}$	$\frac{a_{21}}{a_{22}}$	1	0	$\frac{1}{a_{22}}$
$x_2$	$\frac{-a_{12}b_2 + a_{22}b_1}{a_{22}}$	$\frac{a_{11}a_{22} - a_{12}a_{21}}{a_{22}}$	0	1	$-\frac{a_{12}}{a_{22}}$
Ψ	$-\frac{b_{2}c_{2}}{a_{22}}$	$\frac{-a_{21}c_2 + a_{22}c_1}{a_{22}}$	0	0	$-\frac{c_2}{a_{22}}$

# Table #1.0.1.-1

pots: pot #0:

 $\begin{array}{l} \text{symbol } b_2: [0, inf) \\ \text{symbol } a_{21}: (0, inf) \\ \text{symbol } b_1: [0, inf) \\ \text{symbol } c_1: (-inf, 0) \\ \text{symbol } a_{11}: (0, inf) \\ \text{symbol } a_{21}: (0, inf) \\ \text{symbol } a_{12}: (0, inf) \\ \text{symbol } a_{22}: (0, inf) \\ \text{symbol } a_{22}: (0, inf) \\ -c_1 + c_2 \geqslant 0 \\ -a_{11}b_2 + a_{21}b_1 \geqslant 0 \\ -a_{21}c_2 + a_{22}c_1 > 0 \end{array}$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$  $a_{12}b_2 - a_{22}b_1 \geqslant 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

 $-a_{11}c_2 + a_{12}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21}0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_1$	$\frac{b_1}{a_{12}}$	$\frac{a_{11}}{a_{12}}$	1	$\frac{1}{a_{12}}$	0
$x_3$	$\frac{a_{12}b_2 - a_{22}b_1}{a_{12}}$	$\frac{-a_{11}a_{22} + a_{12}a_{21}}{a_{12}}$	0	$-\frac{a_{22}}{a_{12}}$	1
Ψ	$-\frac{b_1c_2}{a_{12}}$	$\frac{-a_{11}c_2 + a_{12}c_1}{a_{12}}$	0	$-\frac{c_2}{a_{12}}$	0

### Table #1.0.-1

```
pots:
pot #0:
symbol b_2: [0, inf)
symbol a_{21}: (0, inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{11}:(0,inf)
symbol a_{22}:(0, inf)
-c_1 + c_2 \geqslant 0
-a_{11}b_2 + a_{21}b_1 \geqslant 0
-a_{21}c_2 + a_{22}c_1 > 0
-a_{11}a_{22} + a_{12}a_{21} > 0
a_{12}b_2 - a_{22}b_1 \geqslant 0
a_{11}a_{22} - a_{12}a_{21}0
a_{11}c_2 - a_{12}c_1 \geqslant 0
pot #1:
symbol b_2: [0, inf)
symbol a_{21}:(0,inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{11}: (0, inf)
symbol a_{22}: (-inf, 0]
-c_1 + c_2 \geqslant 0
-a_{11}b_2 + a_{21}b_1 \geqslant 0
-a_{21}c_2 + a_{22}c_1 > 0
-a_{11}a_{22} + a_{12}a_{21} > 0
a_{11}c_2 - a_{12}c_1 \geqslant 0
a_{11}a_{22} - a_{12}a_{21}0
pot #2:
symbol b_2: [0, inf)
symbol a_{21}: (0, inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{11}:(-inf,0]
symbol a_{22}:(0, inf)
-c_1 + c_2 \geqslant 0
-a_{21}c_2 + a_{22}c_1 > 0
-a_{11}a_{22} + a_{12}a_{21} > 0
a_{12}b_2 - a_{22}b_1 \geqslant 0
a_{11}a_{22} - a_{12}a_{21}0
a_{11}c_2 - a_{12}c_1 \geqslant 0
pot #3:
symbol b_2: [0, inf)
symbol a_{21}:(0,inf)
symbol b_1: [0, inf)
symbol c_1: (-inf, 0)
symbol a_{11}: (-inf, 0]
symbol a_{22}: (-inf, 0]
-c_1 + c_2 \geqslant 0
```

$$-a_{21}c_2 + a_{22}c_1 > 0$$

$$-a_{11}a_{22} + a_{12}a_{21} > 0$$

$$a_{11}c_2 - a_{12}c_1 \geqslant 0$$

$$a_{11}a_{22} - a_{12}a_{21}0$$

		$x_0$	$x_1$	$x_2$	$x_3$
$x_1$	$\frac{a_{11}b_2 - a_{21}b_1}{a_{11}a_{22} - a_{12}a_{21}}$	0	1	$\frac{a_{21}}{-a_{11}a_{22} + a_{12}a_{21}}$	$\frac{a_{11}}{a_{11}a_{22} - a_{12}a_{21}}$
$x_0$	$\frac{-a_{12}b_2 + a_{22}b_1}{a_{11}a_{22} - a_{12}a_{21}}$	1	0	$\frac{a_{22}}{a_{11}a_{22} - a_{12}a_{21}}$	$\frac{a_{12}}{-a_{11}a_{22}+a_{12}a_{21}}$
Ψ	$\frac{-a_{11}b_{2}c_{2} + a_{12}b_{2}c_{1} + a_{21}b_{1}c_{2} - a_{22}b_{1}c_{1}}{a_{11}a_{22} - a_{12}a_{21}}$	0	0	$\frac{a_{21}c_2 - a_{22}c_1}{a_{11}a_{22} - a_{12}a_{21}}$	$\frac{-a_{11}c_2 + a_{12}c_1}{a_{11}a_{22} - a_{12}a_{21}}$

Solution:  

$$x_0 = \frac{-a_{12}b_2 + a_{22}b_1}{a_{11}a_{22} - a_{12}a_{21}}$$

$$x_1 = \frac{a_{11}b_2 - a_{21}b_1}{a_{11}a_{22} - a_{12}a_{21}}$$

$$x_2 = 0$$

$$x_2 = 0$$

$$x_3 = 0$$

$$x_3 = 0$$

$$\Psi = \frac{-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1}{a_{11}a_{22} - a_{12}a_{21}}$$

# Table #1.1

Moving out basis:  $x_0$  from line: 1

Moving to basis:  $x_1$ 

# pots: pot #0: symbol symbol

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}: (0, inf)$ symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}:(0,inf)$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}b_2 + a_{21}b_1 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $-a_{12}b_2 + a_{22}b_1 \geqslant 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

pot #1:

symbol  $b_2:[0,inf)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}:(0,inf)$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}b_2 + a_{21}b_1 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $a_{11}a_{22} - a_{12}a_{21} \geqslant 0$ 

pot #2:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1:[0,inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}: (-inf, 0]$ 

symbol  $a_{22}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

 $-a_{11}a_{22} + a_{12}a_{21} > 0$ 

 $-a_{12}b_2 + a_{22}b_1 \geqslant 0$ 

 $a_{11}a_{22} - a_{12}a_{21}0$ 

pot #3:

symbol  $b_2: [0, inf)$ 

symbol  $a_{21}:(0,inf)$ 

symbol  $b_1: [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}$ : (-inf, 0]symbol  $a_{22}$ : (0, inf)

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{21}c_2 + a_{22}c_1 > 0$ 

$\alpha_{11}\alpha_{22}  \alpha_{12}\alpha_{21} > 0$	$a_{11}a_{22}$	$-a_{12}a_{2}$	$_1 \geqslant$	0
--	----------------	----------------	----------------	---

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$\frac{-a_{12}b_2 + a_{22}b_1}{a_{22}}$	$\frac{a_{11}a_{22} - a_{12}a_{21}}{a_{22}}$	0	1	$-\frac{a_{12}}{a_{22}}$
$x_1$	$\frac{b_2}{a_{22}}$	$\frac{a_{21}}{a_{22}}$	1	0	$\frac{1}{a_{22}}$
Ψ	$-\frac{b_2c_2}{a_{22}}$	$\frac{-a_{21}c_2 + a_{22}c_1}{a_{22}}$	0	0	$-\frac{c_2}{a_{22}}$

$$x_0 = 0$$

$$x_1 = \frac{b_2}{a_1}$$

Solution:  

$$x_0 = 0$$

$$x_1 = \frac{b_2}{a_{22}}$$

$$x_2 = \frac{-a_{12}b_2 + a_{22}b_1}{a_{22}}$$

$$x_3 = 0$$

$$\Psi = -\frac{b_2c_2}{a_{22}}$$

$$x_3 = 0$$

$$\Psi = -\frac{b_2c_2}{a_{22}}$$

# Table #1.-1

pots:

pot #0:

symbol  $b_2 : [0, inf)$ symbol  $a_{21} : (0, inf)$ symbol  $b_1 : [0, inf)$ 

symbol  $c_1: (-inf, 0)$ 

symbol  $a_{11}:(0,inf)$ 

 $-c_1 + c_2 \geqslant 0$ 

 $-a_{11}b_2 + a_{21}b_1 \geqslant 0$ 

 $a_{21}c_2 - a_{22}c_1 \geqslant 0$ 

pot #1:

symbol  $b_2 : [0, inf)$ symbol  $a_{21} : (0, inf)$ symbol  $b_1 : [0, inf)$ symbol  $c_1 : (-inf, 0)$ 

symbol  $c_1$ : (-inf, 0)symbol  $a_{11}$ : (-inf, 0]

 $-c_1 + c_2 \geqslant 0$ 

 $a_{21}c_2 - a_{22}c_1 \geqslant 0$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$-\frac{a_{11}b_2-a_{21}b_1}{a_{21}}$	0	$-\frac{a_{11}a_{22}-a_{12}a_{21}}{a_{21}}$	1	$-\frac{a_{11}}{a_{21}}$
$x_0$	$\frac{b_2}{a_{21}}$	1	$\frac{a_{22}}{a_{21}}$	0	$\frac{1}{a_{21}}$
Ψ	$-\frac{b_{2}c_{1}}{a_{21}}$	0	$c_2 - \frac{a_{22}c_1}{a_{21}}$	0	$-\frac{c_1}{a_{21}}$

$$x_0 = \frac{b_2}{a_{21}}$$

$$x_1 = 0^{21}$$

$$x_2 = -\frac{a_{11}b_2 - a_{21}b_1}{a_{21}}$$

$$x_3 = 0$$

$$\Psi = -\frac{b_2 c_1}{a_{21}}$$

# Table #-1

pots:

pot #0:

symbol  $b_2: [0, inf)$ symbol  $b_1:[0,inf)$ symbol  $c_2: [0, inf)$ symbol  $c_1: [0, inf)$ 

		$x_0$	$x_1$	$x_2$	$x_3$
$x_2$	$b_1$	$a_{11}$	$a_{12}$	1	0
$x_3$	$b_2$	$a_{21}$	$a_{22}$	0	1
Ψ	0	$c_1$	$c_2$	0	0

## Solution:

 $x_0 = 0$ 

 $x_1 = 0$ 

 $x_2 = b_1$ 

 $x_3 = b_2$   $\Psi = 0$