Table # initial

pots:
pot #0:
new:
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$
all:
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$

		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:
new:
symbol $c_1 : (-\infty, 0)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$a_{11}b_2 - a_{21}b_1 > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{11} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $a_{21} : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$a_{11}b_2 - a_{21}b_1 > 0$
pot #1:
new:
symbol $c_1 : (-\infty, 0)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (-\infty, 0]$
$-c_1 + c_2 \geqslant 0$
all:
symbol $a_{11} : (0, \infty)$
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $a_{21} : (-\infty, 0]$
$-c_1 + c_2 \geqslant 0$

		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	$-\frac{b_1c_1}{a_{11}}$	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:
new:
symbol $a_{12} : (0, \infty)$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$a_{11}b_2 - a_{21}b_1 > 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
pot #1:
new:
symbol $a_{12} : (0, \infty)$
$-a_{11}c_2 + a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$a_{11}b_2 - a_{21}b_1 > 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} \geqslant 0$
pot #2:
new:
symbol $a_{12} : (0, \infty)$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{11} : (0, \infty)$

symbol $a_{21} : (-\infty, 0]$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
pot #3:
new:
symbol $a_{12} : (0, \infty)$
$-a_{11}c_2 + a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (-\infty, 0]$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} \geqslant 0$

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

Solution:
$x_0 = 0$
$x_1 = \frac{b_1}{a_{12}}$
$x_2 = 0$
$x_3 = b_2 - \frac{a_{22}b_1}{a_{12}}$
$\Psi = -\frac{b_1c_2}{a_{12}}$

Table #0.1
Moving out basis: x_3 from line: 1
Moving to basis: x_1

pots:
pot #0:
new:
symbol $a_{12} : (0, \infty)$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$a_{11}b_2 - a_{21}b_1 > 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
pot #1:
new:
symbol $a_{12} : (-\infty, 0]$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$a_{11}b_2 - a_{21}b_1 > 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
pot #2:
new:
symbol $a_{12} : (0, \infty)$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{11} : (0, \infty)$

symbol $a_{21} : (-\infty, 0]$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
pot #3:
new:
symbol $a_{12} : (-\infty, 0]$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (-\infty, 0]$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$

		x_0	x_1	x_2	x_3
x_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	$\frac{1}{a_{11}a_{22}-a_{12}a_{21}}\left(-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1\right)$	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:
new:
symbol $a_{22} : (0, \infty)$
$-a_{21}c_2 + a_{22}c_1 > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$a_{11}b_2 - a_{21}b_1 > 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
pot #1:
new:
symbol $a_{22} : (0, \infty)$
$-a_{21}c_2 + a_{22}c_1 > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$a_{11}b_2 - a_{21}b_1 > 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{21}c_2 + a_{22}c_1 > 0$

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

Solution:
$x_0 = 0$
$x_1 = \frac{b_2}{a_{22}}$
$x_2 = -\frac{a_{12}b_2}{a_{22}} + b_1$

$x_3 = 0$
$\Psi = -\frac{b_2 c_2}{a_{22}}$

Table #0.1.-1

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

$a_{21}c_2 - a_{22}c_1 \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (-\infty, 0]$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}c_2 + a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$a_{21}c_2 - a_{22}c_1 \geqslant 0$

		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	$\frac{1}{a_{11}a_{22}-a_{12}a_{21}}\left(-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1\right)$	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:
$x_0 = \frac{-a_{12}b_2+a_{22}b_1}{a_{11}a_{22}-a_{12}a_{21}}$
$x_1 = \frac{a_{11}b_2-a_{21}b_1}{a_{11}a_{22}-a_{12}a_{21}}$
$x_2 = 0$
$x_3 = 0$
$\Psi = \frac{1}{a_{11}a_{22}-a_{12}a_{21}}\left(-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1\right)$

Table #0.-1

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

		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	$-\frac{b_1c_1}{a_{11}}$	0	$c_2 - \frac{a_{12}c_1}{a_{11}}$	$-\frac{c_1}{a_{11}}$	0

Solution:
$x_0 = \frac{b_1}{a_{11}}$
$x_1 = 0$
$x_2 = 0$
$x_3 = b_2 - \frac{a_{21}b_1}{a_{11}}$
$\Psi = -\frac{b_1c_1}{a_{11}}$

Table #0
Moving out basis: x_2 from line: 0
Moving to basis: x_1

pots:
pot #0:
new:
symbol $a_{12} : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
$c_1 - c_2 > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
$c_1 - c_2 > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
pot #1:
new:
symbol $a_{12} : (0, \infty)$
symbol $a_{22} : (-\infty, 0]$
symbol $c_2 : (-\infty, 0)$
$c_1 - c_2 > 0$
all:
symbol $a_{22} : (-\infty, 0]$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
$c_1 - c_2 > 0$

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

Table #0.0
Moving out basis: x_1 from line: 0
Moving to basis: x_0

pots:
pot #0:
new:
symbol $a_{11} : (0, \infty)$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$a_{11}b_2 - a_{21}b_1 > 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$a_{11}b_2 - a_{21}b_1 > 0$
pot #1:
new:
symbol $a_{11} : (0, \infty)$
$a_{11}c_2 - a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} \geqslant 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
$a_{11}c_2 - a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} \geqslant 0$
pot #2:
new:
symbol $a_{11} : (0, \infty)$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$a_{11}b_2 - a_{21}b_1 > 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (-\infty, 0]$
symbol $a_{11} : (0, \infty)$

symbol $c_2 : (-\infty, 0)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$a_{11}b_2 - a_{21}b_1 > 0$
pot #3:
new:
symbol $a_{11} : (0, \infty)$
$a_{11}c_2 - a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} \geqslant 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (-\infty, 0]$
symbol $a_{11} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{11}c_2 - a_{12}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} \geqslant 0$

		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	$-\frac{b_1c_1}{a_{11}}$	0	$c_2 - \frac{a_{12}c_1}{a_{11}}$	$-\frac{c_1}{a_{11}}$	0

Solution:
$x_0 = \frac{b_1}{a_{11}}$
$x_1 = 0$
$x_2 = 0$
$x_3 = b_2 - \frac{a_{21}b_1}{a_{11}}$
$\Psi = -\frac{b_1c_1}{a_{11}}$

Table #0.1
Moving out basis: x_3 from line: 1
Moving to basis: x_0

pots:
pot #0:
new:
symbol $a_{11} : (0, \infty)$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
pot #1:
new:
symbol $a_{11} : (-\infty, 0]$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (-\infty, 0]$
symbol $c_2 : (-\infty, 0)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
pot #2:
new:
symbol $a_{11} : (0, \infty)$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (-\infty, 0]$
symbol $a_{11} : (0, \infty)$

symbol $c_2 : (-\infty, 0)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
pot #3:
new:
symbol $a_{11} : (-\infty, 0]$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (-\infty, 0]$
symbol $a_{11} : (-\infty, 0]$
symbol $c_2 : (-\infty, 0)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$

		x_0	x_1	x_2	x_3
x_1	$\frac{a_{11}b_2 - a_{21}b_1}{a_{11}a_{22} - a_{12}a_{21}}$	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	$\frac{1}{a_{11}a_{22} - a_{12}a_{21}} (-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1)$	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.-1

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

$-a_{21}c_2 + a_{22}c_1 \geqslant 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (-\infty, 0]$
symbol $a_{11} : (-\infty, 0]$
symbol $c_2 : (-\infty, 0)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{11}c_2 - a_{12}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$-a_{21}c_2 + a_{22}c_1 \geqslant 0$

		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	$\frac{1}{a_{11}a_{22} - a_{12}a_{21}} (-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1)$	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:
$x_0 = \frac{-a_{12}b_2 + a_{22}b_1}{a_{11}a_{22} - a_{12}a_{21}}$
$x_1 = \frac{a_{11}b_2 - a_{21}b_1}{a_{11}a_{22} - a_{12}a_{21}}$
$x_2 = 0$
$x_3 = 0$
$\Psi = \frac{1}{a_{11}a_{22} - a_{12}a_{21}} (-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1)$

Table #0.-1

pots:
pot #0:
new:
$-a_{11}c_2 + a_{12}c_1 \gtrless 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
$c_1 - c_2 > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
$-a_{11}c_2 + a_{12}c_1 \gtrless 0$
pot #1:
new:
$-a_{11}c_2 + a_{12}c_1 \gtrless 0$
all:
symbol $a_{22} : (-\infty, 0]$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
$c_1 - c_2 > 0$
$-a_{11}c_2 + a_{12}c_1 \gtrless 0$

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

Solution:
$x_0 = 0$
$x_1 = \frac{b_1}{a_{12}}$
$x_2 = 0$
$x_3 = b_2 - \frac{a_{22}b_1}{a_{12}}$
$\Psi = -\frac{b_1c_2}{a_{12}}$

Table #1
Moving out basis: x_3 from line: 1
Moving to basis: x_0

pots:
pot #0:
new:
symbol $c_1 : (-\infty, 0)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
all:
symbol $a_{11} : (0, \infty)$
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $a_{21} : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
pot #1:
new:
symbol $c_1 : (-\infty, 0)$
symbol $a_{11} : (-\infty, 0]$
symbol $a_{21} : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{11} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $a_{21} : (0, \infty)$
$-c_1 + c_2 \geqslant 0$

		x_0	x_1	x_2	x_3
x_2	$-\frac{a_{11}b_2}{a_{21}} + b_1$	0	$-\frac{a_{11}a_{22}}{a_{21}} + a_{12}$	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 #1.0
Moving out basis: x_2 from line: 0
Moving to basis: x_1

pots:
pot #0:
new:
symbol $a_{22} : (0, \infty)$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
pot #1:
new:
symbol $a_{22} : (-\infty, 0]$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (-\infty, 0]$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
pot #2:
new:
symbol $a_{22} : (0, \infty)$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (-\infty, 0]$

symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$a_{12}b_2 - a_{22}b_1 > 0$
pot #3:
new:
symbol $a_{22} : (-\infty, 0]$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (-\infty, 0]$
symbol $a_{11} : (-\infty, 0]$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$

		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	$\frac{1}{a_{11}a_{22} - a_{12}a_{21}} (-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1)$	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.-1

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

$a_{11}c_2 - a_{12}c_1 \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (-\infty, 0]$
symbol $a_{11} : (-\infty, 0]$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$a_{11}c_2 - a_{12}c_1 \geqslant 0$

		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	$\frac{1}{a_{11}a_{22} - a_{12}a_{21}} (-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1)$	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:
$x_0 = \frac{-a_{12}b_2 + a_{22}b_1}{a_{11}a_{22} - a_{12}a_{21}}$
$x_1 = \frac{a_{11}b_2 - a_{21}b_1}{a_{11}a_{22} - a_{12}a_{21}}$
$x_2 = 0$
$x_3 = 0$
$\Psi = \frac{1}{a_{11}a_{22} - a_{12}a_{21}} (-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1)$

Table #1.1
Moving out basis: x_0 from line: 1
Moving to basis: x_1

pots:
pot #0:
new:
symbol $a_{22} : (0, \infty)$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
pot #1:
new:
symbol $a_{22} : (0, \infty)$
$-a_{21}c_2 + a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (0, \infty)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} \geqslant 0$
pot #2:
new:
symbol $a_{22} : (0, \infty)$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (-\infty, 0]$

symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
pot #3:
new:
symbol $a_{22} : (0, \infty)$
$-a_{21}c_2 + a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $a_{11} : (-\infty, 0]$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{21}c_2 + a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} \geqslant 0$

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

Solution:
$x_0 = 0$
$x_1 = \frac{b_2}{a_{22}}$
$x_2 = -\frac{a_{12}b_2}{a_{22}} + b_1$
$x_3 = 0$
$\Psi = -\frac{b_2c_2}{a_{22}}$

Table #1.-1

pots:
pot #0:
new:
$a_{21}c_2 - a_{22}c_1 \geqslant 0$
all:
symbol $a_{11} : (0, \infty)$
symbol $c_1 : (-\infty, 0)$
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $a_{21} : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
$a_{21}c_2 - a_{22}c_1 \geqslant 0$
pot #1:
new:
$a_{21}c_2 - a_{22}c_1 \geqslant 0$
all:
symbol $c_1 : (-\infty, 0)$
symbol $a_{11} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$
symbol $a_{21} : (0, \infty)$
$-c_1 + c_2 \geqslant 0$
$a_{21}c_2 - a_{22}c_1 \geqslant 0$

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

Solution:
$x_0 = \frac{b_2}{a_{21}}$
$x_1 = 0$
$x_2 = -\frac{a_{11}b_2}{a_{21}} + b_1$
$x_3 = 0$
$\Psi = -\frac{b_2c_1}{a_{21}}$

Table #1
Moving out basis: x_3 from line: 1
Moving to basis: x_1

pots:
pot #0:
new:
symbol $a_{12} : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
$c_1 - c_2 > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
all:
symbol $b_2 : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
$c_1 - c_2 > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
pot #1:
new:
symbol $a_{12} : (-\infty, 0]$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
$c_1 - c_2 > 0$
all:
symbol $b_2 : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
$c_1 - c_2 > 0$

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

Table #1.0
Moving out basis: x_2 from line: 0
Moving to basis: x_0

pots:
pot #0:
new:
symbol $a_{21} : (0, \infty)$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$a_{11}b_2 - a_{21}b_1 > 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$a_{11}b_2 - a_{21}b_1 > 0$
pot #1:
new:
symbol $a_{21} : (-\infty, 0]$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{21} : (-\infty, 0]$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
pot #2:
new:
symbol $a_{21} : (0, \infty)$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$a_{11}b_2 - a_{21}b_1 > 0$
all:
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$

symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$a_{11}b_2 - a_{21}b_1 > 0$
pot #3:
new:
symbol $a_{21} : (-\infty, 0]$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
all:
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{21} : (-\infty, 0]$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$

		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	$\frac{1}{a_{11}a_{22}-a_{12}a_{21}}\left(-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1\right)$	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.-1

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

$-a_{11}c_2 + a_{12}c_1 \geqslant 0$
all:
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{21} : (-\infty, 0]$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{11}c_2 + a_{12}c_1 \geqslant 0$

		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	$\frac{1}{a_{11}a_{22}-a_{12}a_{21}}(-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1)$	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:
$x_0 = \frac{-a_{12}b_2+a_{22}b_1}{a_{11}a_{22}-a_{12}a_{21}}$
$x_1 = \frac{a_{11}b_2-a_{21}b_1}{a_{11}a_{22}-a_{12}a_{21}}$
$x_2 = 0$
$x_3 = 0$
$\Psi = \frac{1}{a_{11}a_{22}-a_{12}a_{21}}(-a_{11}b_2c_2 + a_{12}b_2c_1 + a_{21}b_1c_2 - a_{22}b_1c_1)$

Table #1.1
Moving out basis: x_1 from line: 1
Moving to basis: x_0

pots:
pot #0:
new:
symbol $a_{21} : (0, \infty)$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
pot #1:
new:
symbol $a_{21} : (0, \infty)$
$a_{21}c_2 - a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} \geqslant 0$
all:
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$-a_{12}b_2 + a_{22}b_1 \geqslant 0$
$a_{21}c_2 - a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} \geqslant 0$
pot #2:
new:
symbol $a_{21} : (0, \infty)$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
all:
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$

symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{21}c_2 - a_{22}c_1 > 0$
$a_{11}a_{22} - a_{12}a_{21} > 0$
$-a_{11}b_2 + a_{21}b_1 \geqslant 0$
pot #3:
new:
symbol $a_{21} : (0, \infty)$
$a_{21}c_2 - a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} \geqslant 0$
all:
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{21} : (0, \infty)$
symbol $b_2 : (0, \infty)$
$c_1 - c_2 > 0$
$a_{21}c_2 - a_{22}c_1 > 0$
$-a_{11}a_{22} + a_{12}a_{21} \geqslant 0$

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

Solution:
$x_0 = \frac{b_2}{a_{21}}$
$x_1 = 0$
$x_2 = -\frac{a_{11}b_2}{a_{21}} + b_1$
$x_3 = 0$
$\Psi = -\frac{b_2c_1}{a_{21}}$

Table #1.-1

pots:
pot #0:
new:
$-a_{21}c_2 + a_{22}c_1 \gtrless 0$
all:
symbol $b_2 : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{12} : (0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
$c_1 - c_2 > 0$
$-a_{12}b_2 + a_{22}b_1 \gtrless 0$
$-a_{21}c_2 + a_{22}c_1 \gtrless 0$
pot #1:
new:
$-a_{21}c_2 + a_{22}c_1 \gtrless 0$
all:
symbol $b_2 : (0, \infty)$
symbol $c_2 : (-\infty, 0)$
symbol $a_{12} : (-\infty, 0]$
symbol $b_1 : (0, \infty)$
symbol $a_{22} : (0, \infty)$
$c_1 - c_2 > 0$
$-a_{21}c_2 + a_{22}c_1 \gtrless 0$

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

Solution:
$x_0 = 0$
$x_1 = \frac{b_2}{a_{22}}$
$x_2 = -\frac{a_{12}b_2}{a_{22}} + b_1$
$x_3 = 0$
$\Psi = -\frac{b_2c_2}{a_{22}}$

Table #-1

pots:
pot #0:
new:
symbol $c_1 : [0, \infty)$
symbol $c_2 : [0, \infty)$
all:
symbol $c_1 : [0, \infty)$
symbol $c_2 : [0, \infty)$
symbol $b_1 : (0, \infty)$
symbol $b_2 : (0, \infty)$

		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:
$x_0 = 0$
$x_1 = 0$
$x_2 = b_1$
$x_3 = b_2$
$\Psi = 0$