Table # initial

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

		x_0	x_1	x_2	x_3
x_0	3	1	0	0	2
x_1	1	0	1	0	a
x_2	4	0	0	1	3
Ψ	0.0	0.0	0.0	0	-2

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

pots:
pot #0:
new:
symbol a : $(3/4, \infty)$
all:
symbol a : $(3/4, \infty)$

		x_0	x_1	x_2	x_3
x_0	$3 - \frac{2}{a}$	1	$-\frac{2}{a}$	0	0
x_3	$\frac{1}{a}$	0	$\frac{1}{a}$	0	1
x_2	$4 - \frac{3}{a}$	0	$-\frac{3}{a}$	1	0
Ψ	$\frac{2}{a}$	0	$\frac{2}{a}$	0	0

Solution:
$x_0 = 3 - \frac{2}{a}$
$x_1 = 0$
$x_2 = 4 - \frac{3}{a}$
$x_3 = \frac{1}{a}$
$\Psi = \frac{2}{a}$

Table #2
Moving out basis: x_2 from line: 2
Moving to basis: x_3

pots:
pot #0:
new:
symbol a : $(0, 3/4]$
all:
symbol a : $(0, 3/4]$

		x_0	x_1	x_2	x_3
x_0	$\frac{1}{3}$	1	0	$-\frac{2}{3}$	0
x_1	$-\frac{4a}{3}+1$	0	1	$-\frac{a}{3}$	0
x_3	$\frac{4}{3}$	0	0	$\frac{1}{3}$	1
Ψ	2.66666666666667	0	0	$\frac{2}{3}$	0

Solution:
$x_0 = \frac{1}{3}$
$x_1 = -\frac{4a}{3}+1$
$x_2 = 0$
$x_3 = \frac{4}{3}$
$\Psi = 2.66666666666667$