

Simplex Algorithm

$X_3 = 1 - 1 X_1 + 1 X_2$
$X_4 = 1 + 2 X_1 - 1 X_2$
$X_5 = 5 - 2 X_1 + 1 X_2$
$Z = 0 + 3 X_1 - 1 X_2$

$X_3 = 1 - 1 X_1 + 1 X_2$
$X_4 = 1 + 2 X_1 - 1 X_2$
$X_5 = 5 - 2 X_1 + 1 X_2$
$Z = 0 + 3 X_1 - 1 X_2$

$X_4 = 3 + 1 X_2 - 2 X_3$
$X_5 = 3 - 1 X_2 + 2 X_3$
$X_1 = 1 + 1 X_2 - 1 X_3$
$Z = 3 + 2 X_2 - 3 X_3$

$X_4 = 3 + 1 X_2 - 2 X_3$
$X_5 = 3 - 1 X_2 + 2 X_3$
$X_1 = 1 + 1 X_2 - 1 X_3$
$Z = 3 + 2 X_2 - 3 X_3$

$X_4 = 6 - 1 X_5$
$X_1 = 4 + 1 X_3 - 1 X_5$
$X_2 = 3 + 2 X_3 - 1 X_5$
$Z = 9 + 1 X_3 - 2 X_5$

B		X1	X2	X3	X4	X5	
X3	1	=	1	-1	1	0	0
X4	1	=	-2	1	0	1	0
X5	5	=	2	-1	0	0	1
	Z-0	=	3	-1	0	0	0

B		X1	X2	X3	X4	X5	
X3	1	=	1	-1	1	0	0
X4	1	=	-2	1	0	1	0
X5	5	=	2	-1	0	0	1
	Z=0	=	3	-1	0	0	0

B		X1	X2	X3	X4	X5	
X4	3	=	0	-1	2	1	0
X5	3	=	0	1	-2	0	1
X1	1	=	1	-1	1	0	0
	Z-3	=	0	2	-3	0	0

B		X1	X2	X3	X4	X5	
X4	3	=	0	-1	2	1	0
X5	3	=	0	1	-2	0	1
X1	1	=	1	-1	1	0	0
	Z-3	=	0	2	-3	0	0

B		X1	X2	X3	X4	X5	
X4	6	=	0	0	0	1	1
X1	4	=	1	0	-1	0	1
X2	3	=	0	1	-2	0	1
	Z-9	=	0	0	1	0	-2