Fase 2; Max $Z = 3x + 5y$, original igualada a 0

Base	X	Y	H1	E1	E2	VS
X	1	0	0	$\frac{-2}{9}$	$\frac{1}{9}$	$\frac{2}{3}$
Y	0	1	0	$\frac{-1}{9}$	$\frac{-9}{9}$	$\frac{4}{3}$
H1	0	0	1	$\frac{1}{9}$	$\frac{4}{9}$	$\frac{5}{3}$
Z	-3	-5	0	0	0	0

Bauss Jordan Fila

Fila $x \cdot 3 + z$

Base	X	Y	H1	E1	E2	VS
X.3	3	0	0	$\frac{-2}{3}$	$\frac{1}{3}$	2
Z	-3	-5	0	0	0	0
Nuevo Z	0	-5	0	$\frac{-2}{3}$	$\frac{1}{3}$	2

Fila $Y \cdot 5 + Z$

Base	X	Y	H1	E1	E2	VS
Y.5	0	5	0	$\frac{-5}{9}$	$\frac{-20}{9}$	$\frac{20}{3}$
Z	0	-5	0	$\frac{-2}{3}$	$\frac{1}{3}$	2
Nuevo Z	0	0	0	$\frac{-11}{9}$	$\frac{-17}{9}$	$\frac{26}{3}$

$X = 0$, esta en la base $\frac{11}{9} = 1,22$ $\frac{17}{9} = 1,88$

$Y = 0$, esta en la base

$H1 = 0$, esta en la base $VE = E2$

E1 Negativo → iterar

E2 Negativo → iterar RM

Pivote

Base	X	Y	H1	E1	E2	VS
H1→E2	0	0	$\frac{9}{4}$	$\frac{1}{4}$	1	$\frac{45}{12}$

X	Y	Z
$X = 1 - (\frac{1}{4} \cdot 0) = 0$	$X = 0 - (\frac{-9}{4} \cdot 0) = 0$	$X = 0 - (\frac{-27}{4} \cdot 0) = 0$
$Y = 0 - (\frac{1}{4} \cdot 0) = 1$	$Y = 1 - (\frac{-9}{4} \cdot 0) = 1$	$Y = 0 - (\frac{-27}{4} \cdot 0) = 0$
$H1 = 0 - (\frac{1}{4} \cdot \frac{9}{4}) = 1$	$H1 = 0 - (\frac{-9}{4} \cdot \frac{9}{4}) = 1$	$H1 = 0 - (\frac{-27}{4} \cdot \frac{9}{4}) = \frac{27}{4}$
$E1 = \frac{2}{4} - (\frac{1}{4} \cdot \frac{1}{4}) = 0$	$E1 = \frac{-1}{4} - (\frac{-9}{4} \cdot \frac{1}{4}) = 0$	$E1 = \frac{-27}{4} - (\frac{-27}{4} \cdot \frac{1}{4}) = \frac{3}{4}$
$E2 = \frac{1}{4} - (\frac{1}{4} \cdot 1) = 0$	$E2 = \frac{-9}{4} - (\frac{-9}{4} \cdot 1) = 0$	$E2 = \frac{27}{4} - (\frac{-27}{4} \cdot 1) = 0$
$VS = \frac{2}{3} - (\frac{1}{4} \cdot \frac{45}{12}) = 3$	$VS = \frac{9}{3} - (\frac{-9}{4} \cdot \frac{45}{12}) = 3$	$VS = \frac{26}{3} - (\frac{-27}{4} \cdot \frac{45}{12}) = \frac{63}{4}$

Base	X	Y	H1	E1	E2	VS
X	1	0	$-\frac{1}{4}$	$-\frac{1}{4}$	0	$\frac{1}{4}$
Y	0	1	1	0	0	3
E2	0	0	$\frac{9}{4}$	$\frac{1}{4}$	1	$\frac{45}{12}$
Z	0	0	$\frac{27}{4}$	$\frac{-3}{4}$	0	$\frac{63}{4}$

X=0 esta en la base

Y=0 esta en la base

H1 positivo

E1 negativo

E2=0, esta en la base

VE = E1 $\frac{45}{12}$ / $\frac{1}{4}$

VS = E2

Pivote

Base	X	Y	H1	E1	E2	VS
E2 → E1	0	0	9	1	4	15

X	Y	Z
$X = 1 - (\frac{-1}{4} \cdot 0) = 0$	$X = 0 - (0 \cdot 0) = 0$	$X = 0 - (\frac{-3}{4} \cdot 0) = 0$
$Y = 0 - (\frac{-1}{4} \cdot 0) = 0$	$Y = 1 - (0 \cdot 0) = 1$	$Y = 0 - (\frac{-3}{4} \cdot 0) = 0$
$H1 = \frac{-1}{4} - (\frac{-1}{4} \cdot 9) = 2$	$H1 = 1 - (0 \cdot 9) = 1$	$H1 = \frac{17}{4} - (\frac{-3}{4} \cdot 9) = 11$
$E1 = \frac{-1}{4} - (\frac{-1}{4} \cdot 1) = 0$	$E1 = 0 - (0 \cdot 1) = 0$	$E1 = \frac{-3}{4} - (\frac{-3}{4} \cdot 1) = 0$
$E2 = 0 - (\frac{-1}{4} \cdot 4) = 1$	$E2 = 0 - (0 \cdot 4) = 0$	$E2 = 0 - (\frac{-3}{4} \cdot 4) = 3$
$VS = \frac{7}{4} - (\frac{-1}{4} \cdot 15) = 4$	$VS = 3 - (0 \cdot 15) = 3$	$VS = \frac{63}{4} - (\frac{-3}{4} \cdot 15) = 27$

Base	X	Y	H1	E1	E2	VS
X	1	0	2	0	1	4
Y	0	1	1	0	0	3
E1	0	0	9	1	4	15
Z	0	0	11	0	3	27

$X = 0$ esta en la base

$Y = 0$ esta en la base

H1 positivo, no itera

E1 Positivo no itera

E2 Positivo no itera

Punto $(4, 3)$ $\max Z = 3X + 5Y$

$= 3 \cdot 4 + 5 \cdot 3$

$= \boxed{27}$