Texto, Carta

Descripción generada automáticamente

Gráficamente:

Gráfico, Gráfico de líneas

Descripción generada automáticamente

**Paso a igualdades:**

X1 + X2 + X3 = 6

2 X1 + X2 + X4 = 1

-X1 + 2 X2 – X5 + U = 8

Z(MAX) = 3\*X1 + X2 + 0\*X3 + 0\*X4 + 0\*X5 – M\*U

**Tabla inicial:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | 3 | 1 | 0 | 0 | 0 | -M |  |
| Ck | Xk | Bk | X1 | X2 | X3 | X4 | X5 | U | Tita |
| 0 | X3 | 6 | 1 | 1 | 1 | 0 | 0 | 0 | 6 |
| 0 | X4 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 1 |
| -M | U | 8 | -1 | 2 | 0 | 0 | -1 | 1 | 4 |
| Z = -8M | | | M-3 | -2M-1 | 0 | 0 | M | 0 |  |

No estamos el óptimo. Entra X2 y sale X4

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | 3 | 1 | 0 | 0 | 0 | -M |
| Ck | Xk | Bk | X1 | X2 | X3 | X4 | X5 | U |
| 0 | X3 | 5 | -1 | 0 | 1 | -1 | 0 | 0 |
| 1 | X2 | 1 | 2 | 1 | 0 | 1 | 0 | 0 |
| -M | U | 6 | -5 | 0 | 0 | -2 | -1 | 1 |
| Z = 1 – 6M | | | M-3 | 1 | 0 | 2M+1 | M | 0 |

Llegamos al óptimo, pero en la base hay una VARIABLE ARTIFICIAL 🡪 **EL PROBLEMA ES INCOMPATIBLE.**