

max Z = 6.0X1 + 4.0X2 + 4.0X3

S.A.R

3.0X1 + 2.0X2 + 2.0X3 = 24.0

4.0X1 + 2.0X2 + 4.0X3 >= 40.0

3.0X1 + 2.0X2 + 2.0X3 + 1X4 + 0X5 + 0X6 = 24.0

4.0X1 + 2.0X2 + 4.0X3 + 0X4 - 1X5 + 1X6 = 40.0

Z - 6.0X1 - 4.0X2 - 4.0X3 + 1.0MX4 + 0X5 + 1.0MX6 = 0

Variables de Holgura: ['X5']

Variables Artificiales: ['X6', 'X4']

El Problema no tiene Solución.

| V.B | X1 | X2 | X3 | X4 | X5 | X6 | bi |
|-----|----|----|----|----|----|----|----|
| X | 3 | 2 | 2 | 1 | 0 | 0 | 24 |
| X | 4 | 2 | 4 | 0 | -1 | 1 | 40 |
| Z | -6 | -4 | -4 | M | 0 | M | 0 |

| V.B | X1 | X2 | X3 | X4 | X5 | X6 | bi |
|-----|----|----|----|----|----|----|----|
|-----|----|----|----|----|----|----|----|

| | | | | | | | |
|----|---------|---------|---------|---|----|---|------|
| X4 | 3 | 2 | 2 | 1 | 0 | 0 | 24 |
| X6 | 4 | 2 | 4 | 0 | -1 | 1 | 40 |
| Z | -7M - 6 | -4M - 4 | -6M - 4 | 0 | M | 0 | -64M |

| V.B | X1 | X2 | X3 | X4 | X5 | X6 | bi |
|-----|----|------|-------|----------|----|----|----------|
| X1 | 1 | 2/3 | 2/3 | 1/3 | 0 | 0 | 8 |
| X6 | 0 | -2/3 | 4/3 | -4/3 | -1 | 1 | 8 |
| Z | 0 | 2M/3 | -4M/3 | 7M/3 + 2 | M | 0 | -8M + 48 |

| V.B | X1 | X2 | X3 | X4 | X5 | X6 | bi |
|-----|----|------|----|-------|------|------|----|
| X1 | 1 | 1 | 0 | 1 | 1/2 | -1/2 | 4 |
| X3 | 0 | -1/2 | 1 | -1 | -3/4 | 3/4 | 6 |
| Z | 0 | 0 | 0 | M + 2 | 0 | M | 48 |

| V.B | X1 | X2 | X3 | X4 | X5 | X6 | bi |
|-----|----|------|----|-------|------|------|----|
| X1 | 1 | 1 | 0 | 1 | 1/2 | -1/2 | 4 |
| X3 | 0 | -1/2 | 1 | -1 | -3/4 | 3/4 | 6 |
| Z | 0 | 0 | 0 | M + 2 | 0 | M | 48 |

El Problema no tiene Solución.