



$$\begin{cases} \max z = x_1 + 2x_2 \\ \text{s.c.} & 2x_1 + x_2 \leq 3 \\ & x_2 \leq 2 \\ & x_1, x_2 \in \mathbb{N} \end{cases}$$

sol la base

$$\begin{cases} \max z = x_1 + 2x_2 + 0x_3 + 0x_4 \\ 2x_1 + x_2 + x_3 = 3 \\ x_2 + x_4 = 2 \\ x_1, x_2, x_3, x_4 \in \mathbb{N} \end{cases}$$

	x_1	x_2	x_3	x_4	b_i
Δ	1	2	0	0	0
x_3	2	1	1	0	3
x_4	0	1	0	1	2

$\frac{3}{1}$
 $\frac{2}{1}$ } on prend min

Δ	1	0	0	-2	-4
x_3	2	0	1	-1	1
x_2	0	0	0	1	2
Δ	0	0	$-\frac{1}{2}$	$-\frac{3}{2}$	$-\frac{9}{2} = -4,5$
x_1	1	0	$\frac{1}{2}$	$-\frac{1}{2}$	$\frac{1}{2}$
x_2	0	1	0	1	1

$$\text{sol} = (0, 2, 1, 0)$$

$$z = 4$$

$$z = 1,5$$

$$\text{sol} = (\frac{1}{2}, 2, 0, 0)$$

