PROVA 1

MAX $Z = 5x_1 + 4x_2$

SA $6x_1 + 4x_2 \leq 24$

   $x_1 + 2x_2 \leq 6$

   $-x_1 + x_2 \leq 1$

     $x_2 \leq 2$

  $x_1, x_2 \geq 0$

FORMA PADRÃO

$-Z + 5x_1 + 4x_2 = 0$

$6x_1 + 4x_2 + x_{t1} = 24$

$x_1 + 2x_2 + x_{t2} = 6$

$-x_1 + x_2 + x_{t3} = 1$

$x_2 + x_{t4} = 2$

BASE	x_1	x_2	x_{t1}	x_{t2}	x_{t3}	x_{t4}	RHS	
x_{t1}	⑥ pivô	4	1	0	0	0	24	$24/6 = 4$
x_{t2}	1	2	0	1	0	0	6	$6/1 = 6$
x_{t3}	-1	1	0	0	1	0	1	✗
x_{t4}	0	1	0	0	0	1	2	✗
$-Z$	5	4	0	0	0	0	0	

	BASE	x_1	x_2	x_{t1}	x_{t2}	x_{t3}	x_{t4}	RHS	
$(-\frac{}{})(0)(+1)(-1)$	x_1	1	$\frac{2}{3}$ pivô	$\frac{1}{6}$	0	0	0	4	$\frac{4}{2/3} = 6$
	x_{t2}	0	④/③	$-\frac{1}{6}$	1	0	0	2	$\frac{2}{4/3} = 3/2$
	x_{t3}	0	$\frac{5}{3}$	$\frac{1}{6}$	0	1	0	5	$\frac{5}{5/3} = 3$
	x_{t4}	0	1	0	0	0	1	2	$\frac{2}{1} = 2$
	$-Z$	0	$\frac{2}{3}$	$-\frac{5}{6}$	0	0	0	-20	

BASE	x_1	x_2	x_{t_1}	x_{t_2}	x_{t_3}	x_{t_4}	RHS
x_1	1	0	$1/4$	4	0	0	3
x_2	0	1	$-1/8$	$3/4$	0	0	$3/2$
x_{t_3}	0	0	$3/8$	10	1	0	$5/2$
x_{t_4}	0	0	$1/8$	6	0	1	$1/2$
$-z$	0	0	$-3/4$	$-1/2$	0	0	-21

$(-7/3)(-1)$ $(-7/3)(7/3)$

DESPOSTA: $x_1 = 3$ $x_{t_1} = 0$ $x_{t_3} = 5/2$

$x_2 = 3/2$ $x_{t_2} = 0$ $x_{t_4} = 1/2$

$z = 21$