

$$2972x + 1940y = 4 \quad |:4$$

$$743x + 485y = 1$$

i	a_i	b_i	q_i	r_i	s_i	t_i
1	743	485	1	258	47	-72
2	485	258	1	227	-25	47
3	258	227	1	31	22	-25
4	227	31	7	10	-3	22
5	31	10	3	1	1	-3
6	10	1	10	0	0	1
7	1	0			1	0

$$x_0 = 47$$

$$y_0 = -72$$

$$x = 47 + t \cdot 485$$

$$y = -72 + t \cdot 743 \quad \text{mit } t \in \mathbb{Z}$$