H23閏7

(1)
(p) 
$$\frac{3}{2}y_1 + y_2 - y_3$$
  $\left(m\alpha \times -\frac{3}{2}y_1 - y_2 + y_3\right)$ 
 $3x_1 - y_1 + 2y_2 - y_3 \ge 3$ 
 $3y_1 - 3y_2 + y_3 \ge -5$ 
 $y_1 \ge 0$ 

(2)  $(0') \quad max - \frac{3}{2}y_1 - y_2 + y_3$   $3x_1, \quad y_1 - 2y_2 + y_3 \le -3$   $-3y_1 + 3y_2 - y_3 \le 5$   $y_1 \ge 0$ 

$$Z = -\frac{3}{2}y_1 - y_2 + y_3$$

$$y_4 = -3 - y_1 + 2y_2 - y_3$$

$$y_5 = 5 + 3y_1 - 3y_2 + y_3$$

$$y_{120}$$

- = 73

$$\begin{array}{l}
(9) & \Rightarrow & \forall s \\
3 & = 3 + 9_{1} - \frac{2}{3} \% 5 - 9_{4} \\
Z & = -\frac{3}{2} + 9_{1} + \frac{2}{3} \% 5 - 9_{4} \\
Z & = -\frac{3}{2} + \frac{2}{3} + \frac{1}{3} + \frac{1}{3} \% 5 - \frac{1}{2} \%_{4} - \frac{1}{2} \%_{5} \\
= -\frac{8}{3} - \frac{3}{2} \%_{1} - \%_{4} - \frac{1}{3} \%_{5} \\
\vdots & 2 \times = -\frac{3}{3} + \frac{1}{3} + \frac{1}{3} \times \frac{1}{3}$$

 $\chi_1 = \chi_2 + |= 2$ .

か存在するとして、 B 321-52270 (1) =1. s.t. G. = = =  $G_2 \leq 1$   $G_3 \leq -1 \leq 0$