H24間口

無関係な2つの部分問題を解く.

min max
$$\{y_1 - y_2, 3y_1 - 2y_2\} = y_4$$

 $(P1)$ S.t. $\frac{3}{2}y_1 + y_2 \le 3$
 $\frac{1}{2}y_1 + y_2 \ge -1$
 $-2y_1 + y_2 \le \frac{79}{4}$
 $y_2 \ge 0, y_1 \le 0$
 $(-y_1) \ge 0$

4-4-X

(P1)

$$8t. \ y_2 \le -\frac{3}{2}y_1 + 3 - 0$$

 $y_2 \ge \frac{1}{2}y_1 - 1 - 0$
 $y_2 \le 2y_1 + \frac{19}{4} - 8$ $\max_{x \in X_1, K_2}$

$$0 = 2y_1 - 4$$
, $y_1 = 2$, $y_2 = -3 + 3 = 0$

$$0 = \frac{7}{2}y_1 + \frac{7}{4}, y_1 = -\frac{\sqrt{2}}{4} = -\frac{1}{2}, y_2 = \frac{3}{4} + 3 = \frac{15}{4}$$

$$\frac{1}{4} = \frac{1}{4} - \frac{1}{4}$$

$$\frac{1}{4} = \frac{3}{2} \cdot \frac{1}{4} - \frac{1}{4}$$

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$$\frac{1}{4} - \frac{1}{4}$$

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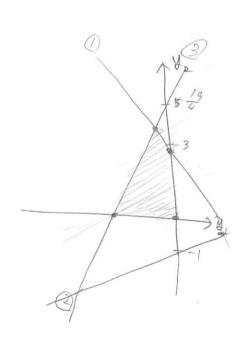
$$\frac{1}{4} - \frac{1}{4}$$

$$\frac{1}{4} - \frac{1}{4}$$

Min
$$y_4$$
 $y_1 - y_2 \le y_4$
 $y_5 - y_1$
 $y_5 - y_2 \le y_4$
 $y_5 - y_5 - y_2 \le y_4$
 $y_5 - y_5 - y_5 - y_5 = y_5$
 $y_5 - y_5 = y_5$
 $y_$

min
$$y \neq -y_{+}$$

St. $y_{6} = 0 + y_{2} + y_{+} - y_{+} + y_{5}$
 $y_{1} = 0 + 2y_{2} + y_{+} - y_{+} + 3y_{5}$
 $y_{8} = 3 - y_{2} + \frac{3}{2}y_{5}$
 $y_{9} = 1 + y_{2} - \frac{1}{2}y_{5}$
 $y_{10} = \frac{1}{2} - y_{2} - 2y_{5}$
 $y_{17} = 0 + 2y_{2} + y_{4} - y_{4} + y_{5} + y_{5}$
 $y_{17} = 0 + 2y_{2} + y_{4} - y_{4} + y_{5} + y_{5}$
 $y_{17} = 0 + 2y_{2} + y_{4} - y_{4} + y_{5} + y_{5} + y_{5}$
 $y_{17} = 0 + 2y_{2} + y_{4} - y_{4} + y_{5} + y_$



win
$$\frac{1}{3}x_1 - x_2 - \frac{5}{12}x_3$$

St, $x_1 + x_2 + \frac{1}{3}x_3 \le \frac{1}{5}$
 $x_1 \ge 0$ ($x_1 = \frac{1}{5} - x_1 - x_2 - \frac{1}{3}x_3$

$$\chi_2 \longleftrightarrow \chi_4$$

$$\chi_2 = \frac{1}{5} - \chi_1 - \chi_4 - \frac{1}{3}\chi_3$$

min #
$$\frac{1}{3}x_1 - \frac{1}{5} + x_1 + x_4 + \frac{1}{3}x_3 - \frac{5}{12}x_3 = -\frac{1}{5} + \frac{4}{3}x_1 + x_4 - \frac{1}{12}x_3$$

)(36) X2

$$\chi_3 = \frac{3}{5} - 3\chi_1 - 3\chi_4 - 3\chi_2$$

$$\lim_{x \to 0} \frac{1}{5} = \frac{1}{5} + \frac{4}{3}x_1 + x_4 + \left(-\frac{1}{20} + \frac{1}{4}x_1 + \frac{1}{4}x_4 + \frac{1}{4}x_2\right)$$

$$= -\frac{5}{20} + \frac{19}{12}x_1 + \frac{5}{4}x_4 + \frac{1}{4}x_2$$

$$-\frac{17}{4} = -\frac{18}{4} = -\frac{9}{2}$$

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$$(\chi_1, \chi_2, \chi_3, \chi_1, \chi_2) = (0, 0, \frac{3}{5}, -\frac{1}{2}, \frac{15}{4})$$
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