

# 代幾 I 計算演習 (2006/01/12) の解答

A.1

$$\begin{cases} x_0 = -3 \\ x_1 = -3 \\ x_2 = -1 \\ x_3 = 3 \end{cases}$$

単一

A.2

$$\begin{cases} x_0 = -1 \\ x_1 = 3 \\ x_2 = 3 \\ x_3 = 3 \end{cases}$$

単一

A.3

$$\begin{cases} x_0 = 1 \\ x_1 = -2p_0 - 3 \\ x_2 = 2p_0 - 4 \\ x_3 = p_0 \end{cases}$$

不定

A.4

$$\begin{cases} x_0 = -1 \\ x_1 = -1 \\ x_2 = 2 \\ x_3 = 3 \end{cases}$$

単一

A.5

$$\begin{cases} x_0 + x_3 = 2 \\ x_1 - 3x_3 = -1 \\ x_2 = -3 \\ 0 = 1 \end{cases}$$

不能

A.6

$$\begin{cases} x_0 = 3p_0 - 3 \\ x_1 = -2p_0 - 4 \\ x_2 = -p_0 \\ x_3 = p_0 \end{cases}$$

不定

A.7

$$\left\{ \begin{array}{rcl} x_0 & + 2x_3 & = 2 \\ & x_1 - 3x_3 & = -2 \\ & x_2 + x_3 & = -3 \\ & & 0 = -2 \end{array} \right.$$

不能

A.8

$$\left\{ \begin{array}{rcl} x_0 & + 2x_3 & = 2 \\ & x_1 - 2x_3 & = 1 \\ & x_2 - 3x_3 & = -2 \\ & & 0 = 3 \end{array} \right.$$

不能

A.9

$$\left\{ \begin{array}{rcl} x_0 & = & -1 \\ x_1 & = & -1 \\ x_2 & = & 2 \\ x_3 & = & 3 \end{array} \right.$$

单一

A.10

$$\left\{ \begin{array}{rcl} x_0 & = & 2p_0 - 2 \\ x_1 & = & 3p_0 - 1 \\ x_2 & = & -4 \\ x_3 & = & p_0 \end{array} \right.$$

不定

A.11

$$\left\{ \begin{array}{rcl} x_0 & & = -2 \\ & x_1 - 2x_3 & = 1 \\ & x_2 - x_3 & = -3 \\ & & 0 = -3 \end{array} \right.$$

不能

A.12

$$\left\{ \begin{array}{rcl} x_0 & = & -4 \\ x_1 & = & -3 \\ x_2 & = & -1 \\ x_3 & = & -2 \end{array} \right.$$

单一