

$$= {}_1^{-} + ({}_2 \cos 2 + {}_3 \sin 2)$$

$$= \frac{1}{4} \log 2 + \sqrt{5} + \frac{\sqrt{5}}{2}$$

$$= \frac{4^3}{3} - \frac{2}{3}$$

HP

$$\begin{vmatrix} -2 & -2 & -1 \\ -3 & -1 & 3 \\ 2 & -2 & -5 \end{vmatrix} = 0$$

$$(-1)(-3)(-4) = 0$$

1, 3, 4

(i = 1, 2, 3)

$$= \begin{pmatrix} - & & \end{pmatrix} =$$

$$x_1 = 1, x_2 = 3, x_3 = 4$$

$$x_1 = \begin{pmatrix} 1 \\ -1 \\ 1 \end{pmatrix}, x_2 = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}, x_3 = \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} 0 & 0 & 0 \end{pmatrix}$$

$$= \begin{pmatrix} 1 & 1 & 1 \\ -1 & 0 & 1 \\ 1 & 1 & 0 \end{pmatrix}, \quad^{-1} = \begin{pmatrix} 1 & -1 & -1 \\ -1 & 1 & 2 \\ 1 & 0 & -1 \end{pmatrix}$$

$$^{-1} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 4 \end{pmatrix} \quad \begin{pmatrix} -1 & & \end{pmatrix}^3 = \begin{pmatrix} -1 & & \end{pmatrix}^3 = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 27 & 0 \\ 0 & 0 & 64 \end{pmatrix}$$

$$^3 = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 27 & 0 \\ 0 & 0 & 64 \end{pmatrix} \quad^{-1} = \begin{pmatrix} 38 & 26 & -11 \\ 63 & 1 & -63 \\ -26 & 26 & 53 \end{pmatrix}$$

HP

$$= \frac{1}{2} \cdot 2 \quad (1)$$

$$= g \cdot \sin \quad (2)$$

$$= -g \cdot \cos \quad (3)$$

$$= \quad (4)$$

$$= \quad (5)$$

(5)

$$= \quad (6)$$

(1) (2) (4) (6)

$$= \frac{2}{3}g \cdot \sin$$

$$= \frac{2}{3}g \cdot \sin \cdot + 1$$

$$= \frac{1}{3}g \cdot \sin \cdot^2 + 1 + 2$$

1, 2

$$= 0 \quad = 0 \quad = 0 \quad 1 = 2 = 0$$

$$= \frac{2}{3}g \cdot \sin \cdot$$

$$= \frac{1}{3}g \cdot \sin \cdot^2$$