

with(LinearAlgebra) : with(plots) :
 $M := \text{Matrix}([[a, b], [c, d]]);$

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \quad (1)$$

$M^{(-1)}$;

$$\begin{bmatrix} \frac{d}{ad-bc} & -\frac{b}{ad-bc} \\ -\frac{c}{ad-bc} & \frac{a}{ad-bc} \end{bmatrix} \quad (2)$$

$N := \text{Matrix}([[a, b, c], [d, e, f], [g, h, i]]);$

$$\begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} \quad (3)$$

MatrixInverse(N);

$$\begin{aligned} & \left[\frac{ei-fh}{gbf-gce-dbi+dch+aei-afh}, -\frac{bi-ch}{gbf-gce-dbi+dch+aei-afh}, \right. \\ & \left. \frac{bf-ce}{gbf-gce-dbi+dch+aei-afh} \right], \left[-\frac{-gf+di}{gbf-gce-dbi+dch+aei-afh}, \right. \\ & \left. \frac{-gc+ai}{gbf-gce-dbi+dch+aei-afh}, -\frac{-dc+af}{gbf-gce-dbi+dch+aei-afh} \right], \left[\right. \\ & \left. -\frac{ge-dh}{gbf-gce-dbi+dch+aei-afh}, -\frac{-gb+ah}{gbf-gce-dbi+dch+aei-afh}, \right. \\ & \left. \frac{-db+ae}{gbf-gce-dbi+dch+aei-afh} \right] \end{aligned} \quad (4)$$

$P := \text{Matrix}([[1, 2, 0, 6], [5, 0, 0, 4], [6, 1, 2, 3], [9, 0, 0, 2]]);$

$$\begin{bmatrix} 1 & 2 & 0 & 6 \\ 5 & 0 & 0 & 4 \\ 6 & 1 & 2 & 3 \\ 9 & 0 & 0 & 2 \end{bmatrix} \quad (5)$$

Determinant(P);

$$104 \quad (6)$$