Matrices combinadas

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Matriz simetrica de orden 3

$$\begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{12} & a_{22} & a_{23} \\ a_{13} & a_{23} & a_{33} \end{bmatrix}$$

Matriz congruente

$$\begin{bmatrix} 1 & \frac{a_{12}}{\sqrt{a_{11}}\sqrt{a_{22}}} & \frac{a_{13}}{\sqrt{a_{11}}\sqrt{a_{33}}} \\ \frac{a_{12}}{\sqrt{a_{11}}\sqrt{a_{22}}} & 1 & \frac{a_{23}}{\sqrt{a_{22}}\sqrt{a_{33}}} \\ \frac{a_{13}}{\sqrt{a_{11}}\sqrt{a_{33}}} & \frac{a_{23}}{\sqrt{a_{22}}\sqrt{a_{33}}} & 1 \end{bmatrix}$$

Submatrices de orden 2

$$\begin{bmatrix} a_{11} & a_{12} \\ a_{12} & a_{22} \end{bmatrix} \qquad a_{11}a_{22} - a_{12}^2$$

$$\begin{bmatrix} a_{11} & a_{13} \\ a_{12} & a_{23} \end{bmatrix} \qquad a_{11}a_{23} - a_{12}a_{13}$$

$$\begin{bmatrix} a_{12} & a_{13} \\ a_{22} & a_{23} \end{bmatrix} \qquad a_{12}a_{23} - a_{13}a_{22}$$

$$\begin{bmatrix} a_{11} & a_{12} \\ a_{13} & a_{23} \end{bmatrix} \qquad a_{11}a_{23} - a_{12}a_{13}$$

$$\begin{bmatrix} a_{11} & a_{13} \\ a_{13} & a_{33} \end{bmatrix} \qquad a_{11}a_{33} - a_{13}^2$$

$$\begin{bmatrix} a_{12} & a_{13} \\ a_{23} & a_{33} \end{bmatrix} \qquad a_{12}a_{33} - a_{13}a_{23}$$

$$\begin{bmatrix} a_{12} & a_{22} \\ a_{13} & a_{23} \end{bmatrix} \qquad a_{12}a_{23} - a_{13}a_{22}$$

$$\begin{bmatrix} a_{12} & a_{23} \\ a_{13} & a_{33} \end{bmatrix} \qquad a_{12}a_{33} - a_{13}a_{23}$$

$$\begin{bmatrix} a_{22} & a_{23} \\ a_{23} & a_{33} \end{bmatrix} \qquad a_{22}a_{33} - a_{23}^2$$