

Oefeningen determinanten

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ANTWOORDEN

$$1. \begin{vmatrix} 2 & -1 \\ 1 & 3 \end{vmatrix} = 6 + 1 = 7$$

$$2. \begin{vmatrix} 3 & 1 \\ 2 & 5 \end{vmatrix} = 15 - 2 = 13$$

$$3. \begin{vmatrix} 3 & -2 \\ 1 & 3 \end{vmatrix} = 9 + 2 = 11$$

$$4. \begin{vmatrix} 5 & 2 \\ -1 & 4 \end{vmatrix} = 20 + 2 = 22$$

$$5. \begin{vmatrix} 2 & 0 \\ -4 & 3 \end{vmatrix} = 6 - 0 = 6$$

$$6. \begin{vmatrix} 2 & -1 & 1 \\ 4 & 2 & 0 \\ 3 & 1 & 4 \end{vmatrix} = 2 \cdot (8) + 1 \cdot (16) + 1 \cdot (-2) = 30$$

$$7. \begin{vmatrix} 1 & 2 & 3 \\ 2 & 0 & 4 \\ 1 & 1 & 2 \end{vmatrix} = 1 \cdot (-4) - 2 \cdot (0) + 3 \cdot (2) = 2$$

$$8. \begin{vmatrix} 1 & 1 & 3 \\ 2 & -1 & 4 \\ 1 & 0 & 5 \end{vmatrix} = 1 \cdot (-5) - 1 \cdot (6) + 3 \cdot (1) = -8$$

$$9. \begin{vmatrix} -1 & 2 & 1 \\ 3 & 2 & 0 \\ 2 & 1 & -2 \end{vmatrix} = -1 \cdot (-4) - 2 \cdot (-6) + 1 \cdot (-1) = 15$$

$$10. \begin{vmatrix} 3 & 2 & 1 \\ 1 & 2 & 3 \\ 4 & 1 & 1 \end{vmatrix} = 3 \cdot (-1) - 2 \cdot (-11) + 1 \cdot (-7) = 12$$