5. Find the real values of α such that the series $I + A + A^2 + A^3 + \dots$ is convergent, where

$$A = \begin{pmatrix} 1 & \alpha \\ -\alpha & 0.5 \end{pmatrix}$$

Answer: $0 < |\alpha| < 1/\sqrt{2}$.

6. What is the result of the execution of the tree below by prefix, infix and postfix traverse respectively?

Answer: Prefix + *ab/c↑de. Infix: a*b + c/d↑e. Postfix: ab*cde↑/+.

BOOKS RECEIVED

485. L. Ewald och S. Westman: Data Kommunikation: Datanät, protokoll och design, Studentlitteratur, Lund, 1983, 348 pp., 16 × 22 cm., SKr 194, —.

486. P. M. G. Apers: Query processing and data allocation in distributed database systems, Mathematisch Centrum, Amsterdam, 1983, 193 pp., 16 × 24 cm., Dfl 26,40.

ERRATUM

Two sided error bounds for discretisation methods in ordinary equations by S. McKee and N. Pitcher, BIT 22 : 3, 314 (1982).

Strictly, theorem 3.1 should read as follows:

'If an m -block method is optimally consistent of order p and zero-stable and has r starting values accurate of order p , then there exist C_L and C_U such that

$$C_L \|A_h^{-1} \theta\|_\infty \leq \|e\|_\infty \leq C_U \|A_h^{-1} \theta\|_\infty.$$

In the case of a method which solves the differential equation exactly, $\theta = e = 0$ and so the result is immediate. In all other cases the result follows from the proof given in the original draft.