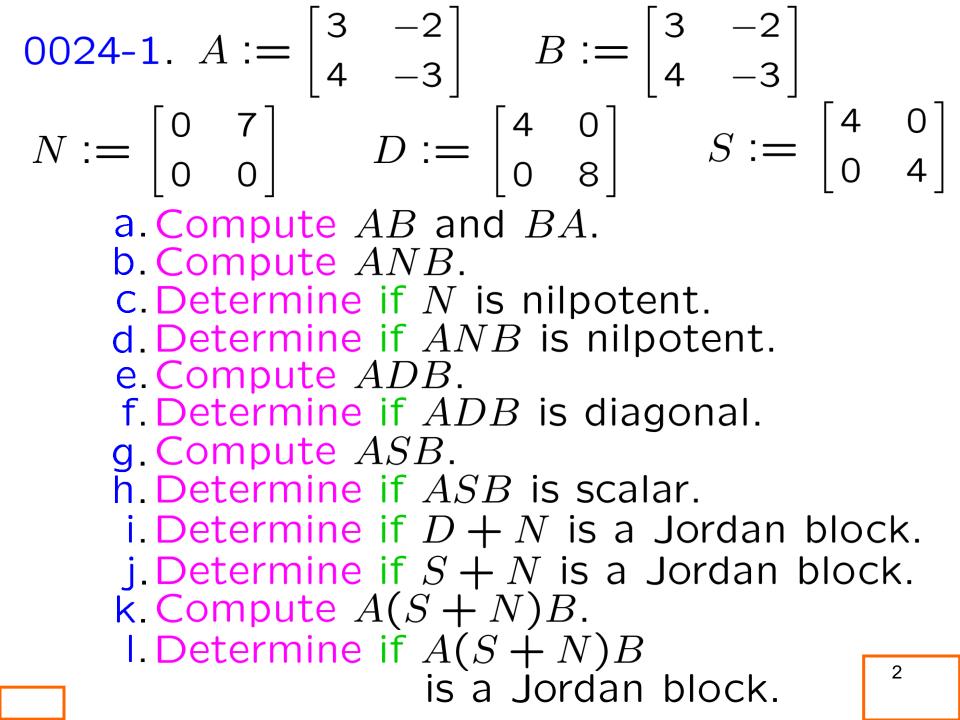
Financial Mathematics Matrix types



$$\begin{array}{ccc} 0024-2. \ \text{Compute exp} \begin{bmatrix} 6 & -2 \\ 0 & 6 \end{bmatrix}. & \begin{array}{c} \text{either give hint,} \\ \text{or move to } 0025 \end{array}$$

give hint,

0024-3. Find a 2×2 orthogonal matrix whose first row has entries: -4/5, 3/5.

0024-4. Does there exist a 2×2 orthogonal matrix whose first column has entries: 2/3, 3 1/3?