7 QR decomposition:

\_ Nousholder:

$$\begin{array}{c}
Q_{3} \\
Q \\
Q \\
Q \\
Q
\end{array}$$

$$\begin{array}{c}
Q_{3} \\
Q_{2} \\
Q_{1} \\
Q
\end{array}$$

$$\begin{array}{c}
Q_{1} \\
Q_{2} \\
Q_{1} \\
Q
\end{array}$$

$$\begin{array}{c}
Q_{1} \\
Q_{2} \\
Q_{1} \\
Q
\end{array}$$

$$\begin{array}{c}
Q_{1} \\
Q_{2} \\
Q_{1} \\
Q
\end{array}$$

$$\begin{array}{c}
Q_{1} \\
Q_{2} \\
Q_{1} \\
Q_{2} \\
Q_{1} \\
Q_{2}
\end{array}$$

$$\begin{array}{c}
Q_{1} \\
Q_{2} \\
Q_{1} \\
Q_{2}
\end{array}$$

$$\begin{array}{c}
Q_{1} \\
Q_{2} \\
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$$\begin{array}{c}
Q_{1} \\
Q_{2} \\
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Q_{2}
\end{array}$$

$$\begin{array}{c}
Q_{1} \\
Q_{2} \\
Q_{1} \\
Q_{2}
\end{array}$$

$$\begin{array}{c}
Q_{1} \\
Q_{2}
\end{array}$$

Calculation of Qb:

$$Q_{b} = \begin{bmatrix} I & O \\ O & F \end{bmatrix}$$

$$F = I - 2\frac{vv^{T}}{v^{T}v}$$

$$V = \begin{bmatrix} I & O \\ O & F \end{bmatrix}$$

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 $\frac{1}{1} A^{(\lambda)} - M_h I = Q^{(\lambda)} R^{(\lambda)}$ her the QR decomposition 1 (1+1) = R(1) Q(1) + MII Where  $M_{k} = \alpha_{n,n}^{(k)} + \xi$  if  $M_{k} = \lambda_{l}$  then the iteration 2) Cleck if  $a_{n_1n-1} \approx 0$ then remove the last column and row 

by 
$$J \approx J$$
 Waring:  $J \neq J$ 

$$|V(0)| = 1$$

$$|V(0)| = 0$$
or augthing

$$(A - I) w^{(1)} = V^{(1)}$$
unknown

Solve this to get is (2) (Thomas algorithm)

$$V^{(\frac{1}{2}41)} = \frac{W^{(\frac{1}{2}}}{||w^{(\frac{1}{2}1)}||_{2}} \quad (non-alization)$$

Stop the iteration, when  $e^{(k)} \approx e^{(k+1)}$