## EXERCISES OF SECTIONS 2.5

Question 1. For what value(s) of $k$, does
$\left[\begin{array}{ccccc}1 & 0 & 1 & \vdots & 0 \\ 1 & 2 & k & \vdots & 0 \\ k & k & 6 & \vdots & k+4\end{array}\right]$
have a unique solution? infinitely many solutions? no solution?

