## MAPLE Practice Quiz 8

Let M be the the matrix defined below. Find orthonormal bases for the column space of M , the row space of $M$ and and the null space of $M$. Repeat the exercise for $M^{t}$.

$$
\left[\begin{array}{ccc}
\frac{1}{2} & \frac{1}{3} & \frac{1}{4} \\
\frac{1}{3} & \frac{1}{4} & \frac{1}{5} \\
\frac{1}{4} & \frac{1}{5} & \frac{1}{6} \\
\frac{1}{5} & \frac{1}{6} & \frac{1}{7} \\
\frac{1}{6} & \frac{1}{7} & \frac{1}{8}
\end{array}\right]
$$

