

### 1.1 Pop quiz on lecture 1 material

1. Find (with proof) the inverse of  $\begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 34 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$ .

2. Find (with proof) the inverse of  $\begin{pmatrix} 1 & 0 & 0 & 17 & 0 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$ .

3. Find (with proof) the inverse of  $\begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & \frac{25}{62} & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}$ .