

Math 308 Discussion Problems
Spring 2017

4. Let $B = \begin{bmatrix} 1 & z \\ 4 & 3 \end{bmatrix}$.

Find all values of z such that the linear transformation T induced by B fixes no line in \mathbb{R}^2 .

5. Let $A = \begin{bmatrix} 1 & 1 & 1 \\ 2 & 1 & 4 \end{bmatrix}$.

Find a 3×2 matrix B with $AB = I_2$. Is there more than one matrix B with this property? Justify your answer.