

and

$$B = \begin{pmatrix} 0 & 0 & 1/3 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 1/4 & 0 & 0 & 0 \\ 0 & 0 & 1/4 & 0 & 0 \\ 0 & 0 & 0 & 1/4 & 0 \\ 1/2 & 1/2 & 1 & 0 & 0 \\ 1 & 1/2 & 1/2 & 1 & 0 \\ 0 & 1 & 1/2 & 1/2 & 1 \\ 0 & 0 & 1 & 1/2 & 1/2 \end{pmatrix}.$$

5. Plot the vector field $f(x, y, z) = (-x, y, \cos z)$.