

EXERCISES OF SECTION 3.3

Question 1. Suppose that A is a 3×3 skew symmetric matrix. What is $|A|$?

Question 2. For what value(s) of k does the following linear system have infinitely many solutions?

$$\begin{bmatrix} 4 & -3 & 0 & \vdots & k-3 \\ k-1 & 0 & 3 & \vdots & -3 \\ k-1 & 3 & k+3 & \vdots & -8 \end{bmatrix}$$