
Exercise 1 Find a unit vector $\mathbf{u}$ in the direction of $\begin{bmatrix} 7 \\ -1 \\ 5 \end{bmatrix}$

$$\mathbf{u} = \dots \dots \begin{bmatrix} 7 \\ -1 \\ 5 \end{bmatrix}$$

Enter the exact answer. No decimal approximations.

Source

[Nicholson] W. Keith Nicholson, *Linear Algebra with Applications*, Lyryx 2021, Open Edition, Problem 4.1.2(a).