

# Solution and Answer Guide

POOLE, LINEAR ALGEBRA: A MODERN INTRODUCTION, 5e, 2026, 9798214013053;  
CHAPTER 1: VECTORS

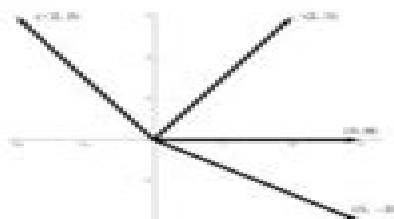
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## 1.1 THE GEOMETRY AND ALGEBRA OF VECTORS

1.

**Solution:**



2.

**Solution:**

Since

$$\begin{bmatrix} 1 \\ -3 \end{bmatrix} + \begin{bmatrix} 3 \\ 0 \end{bmatrix} = \begin{bmatrix} 4 \\ -3 \end{bmatrix}, \quad \begin{bmatrix} 1 \\ -3 \end{bmatrix} + \begin{bmatrix} 2 \\ 3 \end{bmatrix} = \begin{bmatrix} 3 \\ 0 \end{bmatrix}, \quad \begin{bmatrix} 1 \\ -3 \end{bmatrix} + \begin{bmatrix} -2 \\ 3 \end{bmatrix} = \begin{bmatrix} -1 \\ 0 \end{bmatrix}, \quad \begin{bmatrix} 1 \\ -3 \end{bmatrix} + \begin{bmatrix} 3 \\ -2 \end{bmatrix} = \begin{bmatrix} 4 \\ -5 \end{bmatrix}.$$

plotting those vectors gives

# Solution Manual Modern Algebra

**John B. Fraleigh**



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