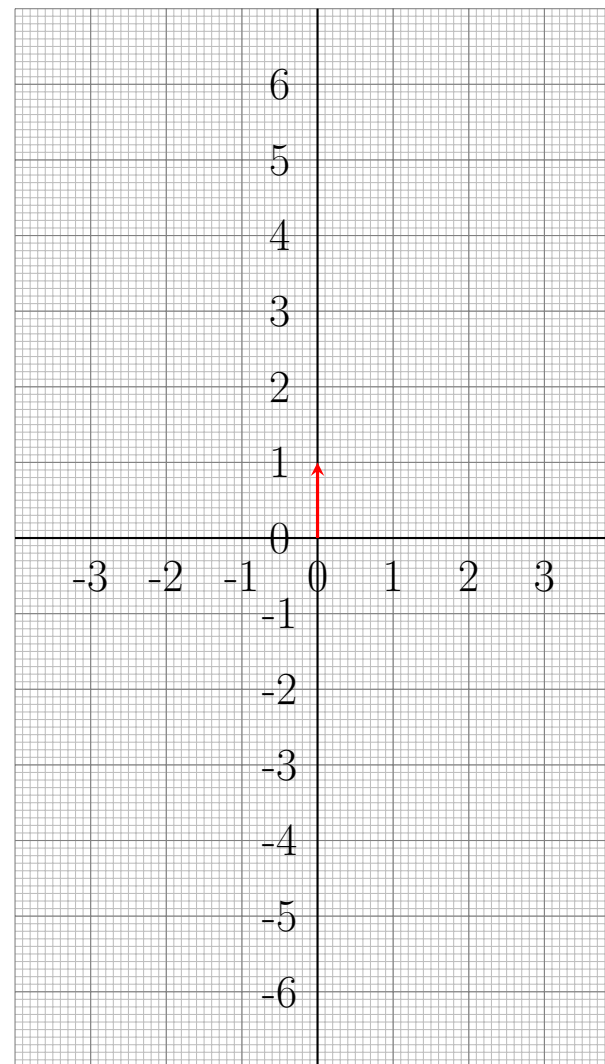
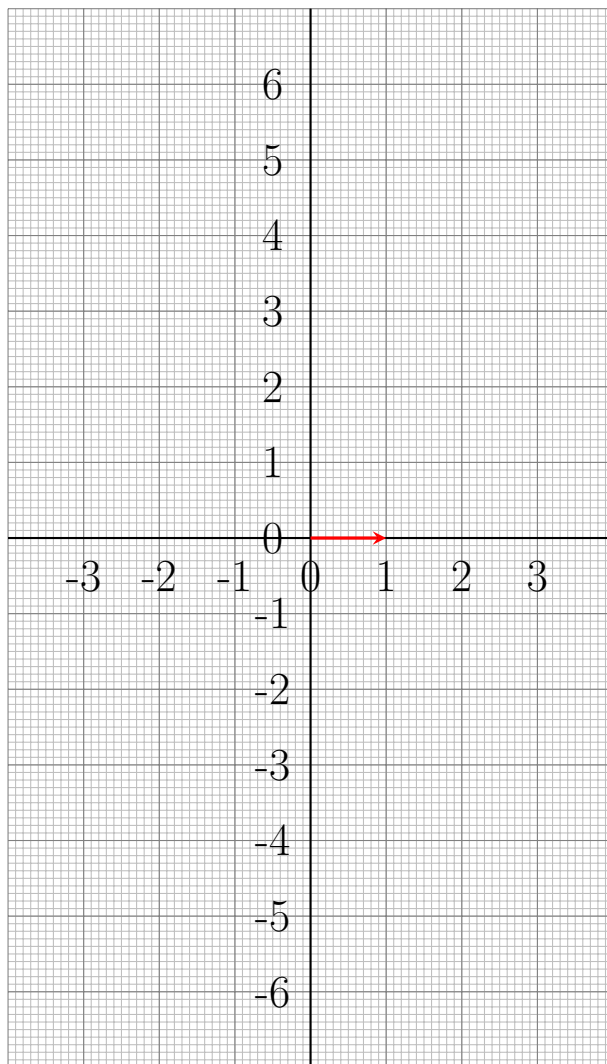
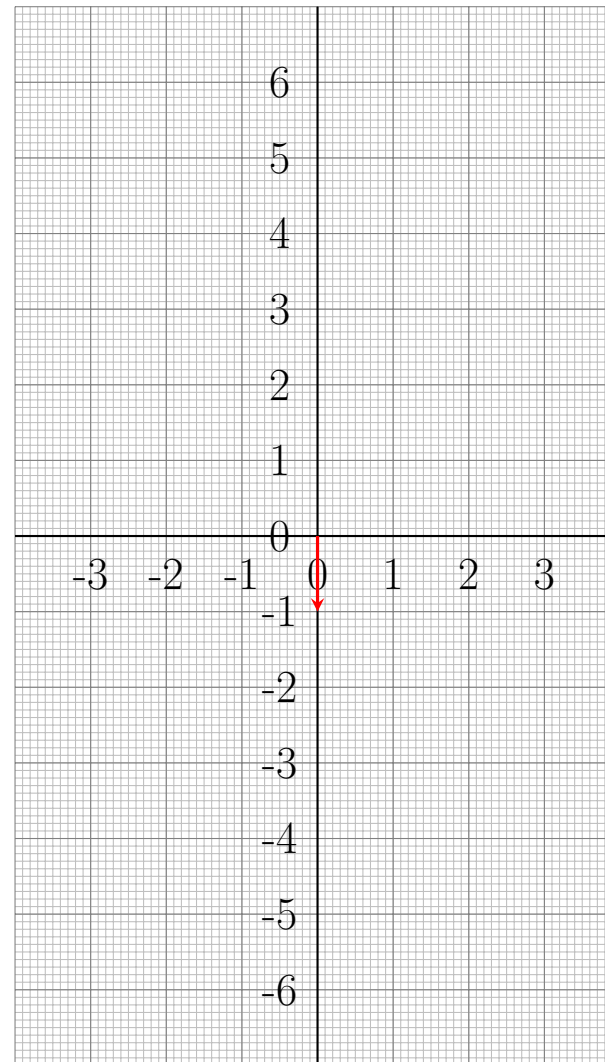
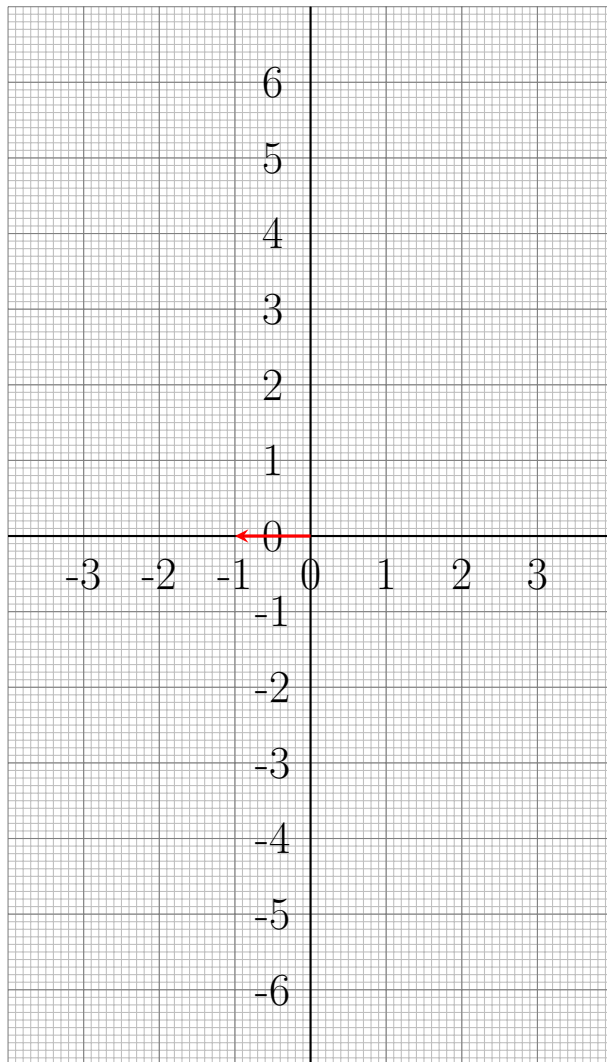


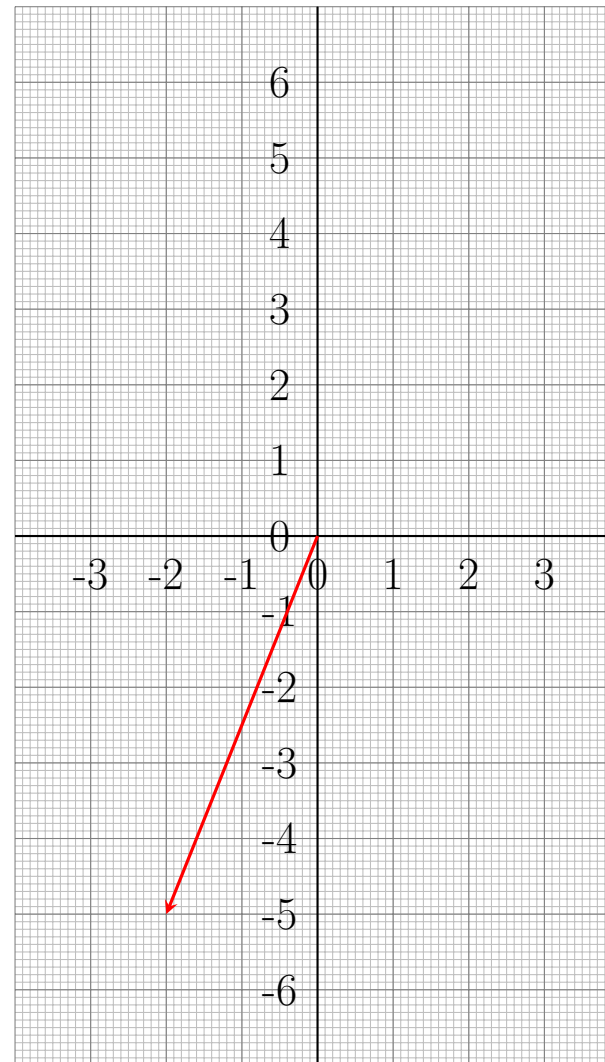
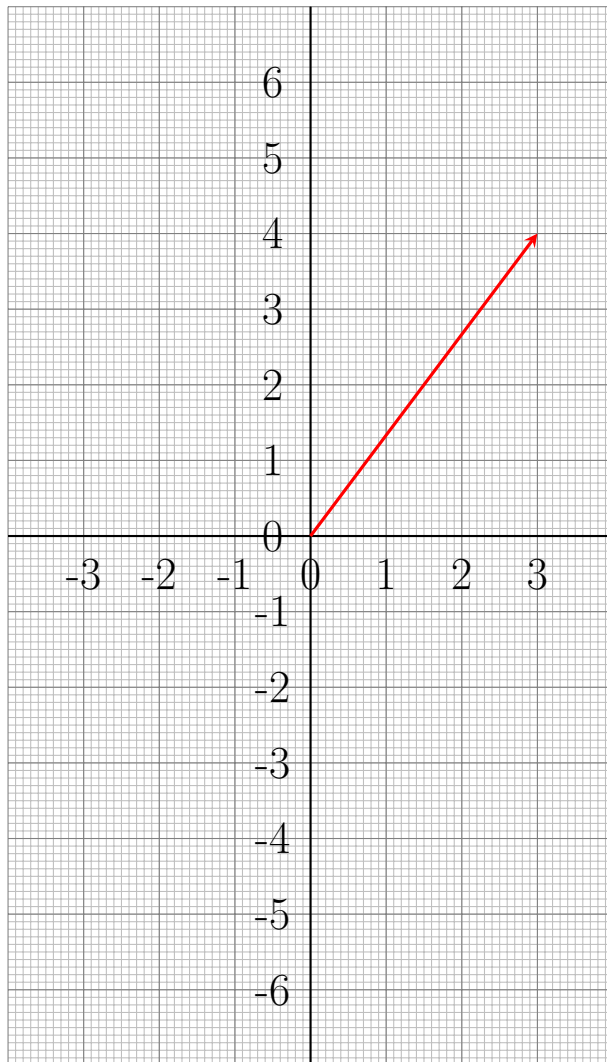
Write in the form $a\mathbf{i} + b\mathbf{j}$:



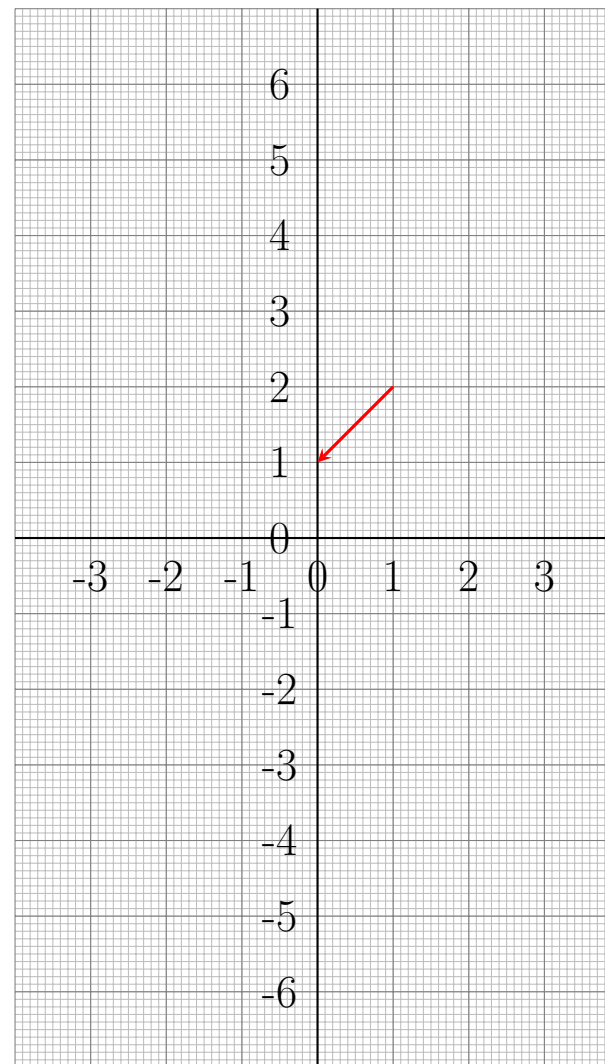
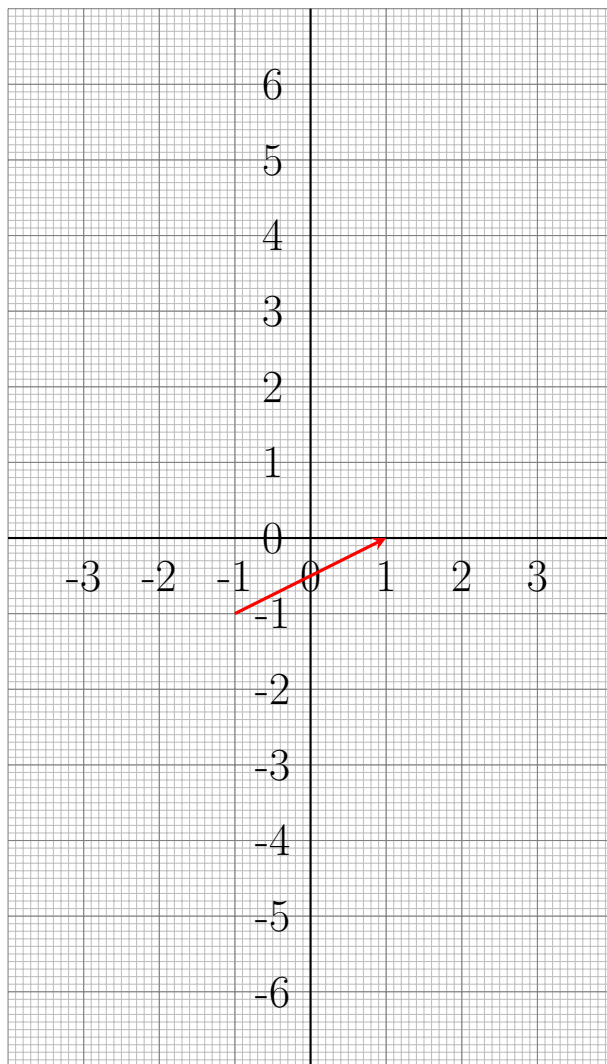
Write in the form $a\mathbf{i} + b\mathbf{j}$:



Write in the form $a\mathbf{i} + b\mathbf{j}$:



Write in the form $a\mathbf{i} + b\mathbf{j}$:



Write as column vectors:

$$3\mathbf{i} + 4\mathbf{j}$$

$$3\mathbf{i}$$

$$-4\mathbf{j}$$

$$-3\mathbf{i} + \mathbf{j}$$

$$3.1234\mathbf{i}$$

$$-\mathbf{j}$$

Work out the matrix calculations

$$\begin{pmatrix} 4 \\ -2 \end{pmatrix} + \begin{pmatrix} -3 \\ -1 \end{pmatrix}$$

$$\begin{pmatrix} 14 \\ -2 \end{pmatrix} - \begin{pmatrix} 23 \\ 1 \end{pmatrix}$$

$$4 \begin{pmatrix} 4 \\ -2 \end{pmatrix} + 2 \begin{pmatrix} -3 \\ -1 \end{pmatrix}$$

$$-2 \begin{pmatrix} 14 \\ -2 \end{pmatrix} - \begin{pmatrix} 23 \\ 1 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} + \begin{pmatrix} 5 & 6 \\ 7 & 8 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 \\ 3 & -4 \end{pmatrix} + \begin{pmatrix} -5 & 6 \\ -7 & 8 \end{pmatrix}$$

Work out the matrix calculations

$$-2 \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} + 3 \begin{pmatrix} 5 & 6 \\ 7 & 8 \end{pmatrix}$$

$$- \begin{pmatrix} 1 & -2 \\ 3 & -4 \end{pmatrix} - \begin{pmatrix} -5 & 6 \\ -7 & 8 \end{pmatrix}$$

$$-2 \begin{pmatrix} 1 & 2a \\ 3b & 4 \end{pmatrix} + 3 \begin{pmatrix} 5 & 6c \\ 7 & 8 \end{pmatrix}$$

$$-x \begin{pmatrix} 1 & -2 \\ 3 & -4 \end{pmatrix} - \begin{pmatrix} -5 & 6 \\ -7 & 8 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} 5 \\ 7 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 \\ 3 & -4 \end{pmatrix} \begin{pmatrix} -2 \\ 0 \end{pmatrix}$$

Work out the matrix calculations

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 \\ 3 & -4 \end{pmatrix} \begin{pmatrix} -2x + 2 \\ z \end{pmatrix}$$

$$\begin{pmatrix} 1 & 2 \end{pmatrix} \begin{pmatrix} 3 \\ 4 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 \end{pmatrix} \begin{pmatrix} -2x \\ z \end{pmatrix}$$

$$\begin{pmatrix} 1 & 2 \end{pmatrix} \begin{pmatrix} x & 4 \\ y & 7 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 \end{pmatrix} \begin{pmatrix} -2 & 2 \\ -15 & 3 \end{pmatrix}$$

Work out the matrix calculations

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} 5 & 6 \\ 7 & 8 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 \\ 3 & -4 \end{pmatrix} \begin{pmatrix} -5 & 6 \\ -7 & 8 \end{pmatrix}$$