

ขนาดของเวกเตอร์

จงหาขนาดของเวกเตอร์ต่อไปนี้

$$\begin{aligned}
 1. \quad \left\| \begin{bmatrix} 3 \\ 4 \end{bmatrix} \right\| &= \sqrt{(\quad)^2 + (\quad)^2} \\
 &= \sqrt{\quad + \quad} \\
 &= \sqrt{\quad} \\
 &= \quad
 \end{aligned}$$

$$\begin{aligned}
 2. \quad \left\| \begin{bmatrix} -4 \\ 3 \end{bmatrix} \right\| &= \sqrt{(\quad)^2 + (\quad)^2} \\
 &= \sqrt{\quad + \quad} \\
 &= \sqrt{\quad} \\
 &= \quad
 \end{aligned}$$

$$\begin{aligned}
 3. \quad \left\| \begin{bmatrix} -6 \\ -8 \end{bmatrix} \right\| &= \sqrt{(\quad)^2 + (\quad)^2} \\
 &= \sqrt{\quad + \quad} \\
 &= \sqrt{\quad} \\
 &= \quad
 \end{aligned}$$

$$\begin{aligned}
 4. \quad \left\| \begin{bmatrix} 12 \\ 5 \end{bmatrix} \right\| &= \sqrt{(\quad)^2 + (\quad)^2} \\
 &= \sqrt{\quad + \quad} \\
 &= \sqrt{\quad} \\
 &= \quad
 \end{aligned}$$

$$\begin{aligned}
 5. \quad \left\| \begin{bmatrix} 1 \\ 0 \end{bmatrix} \right\| &= \sqrt{(\quad)^2 + (\quad)^2} \\
 &= \sqrt{\quad + \quad} \\
 &= \sqrt{\quad} \\
 &= \quad
 \end{aligned}$$

$$\begin{aligned}
 6. \quad \left\| \begin{bmatrix} 0 \\ 1 \end{bmatrix} \right\| &= \sqrt{(\quad)^2 + (\quad)^2} \\
 &= \sqrt{\quad + \quad} \\
 &= \sqrt{\quad} \\
 &= \quad
 \end{aligned}$$

$$7. \left\| \begin{bmatrix} -2 \\ 3 \end{bmatrix} \right\| = \sqrt{(\quad)^2 + (\quad)^2}$$

$$= \sqrt{\quad + \quad}$$

$$= \sqrt{\quad}$$

$$8. \left\| \begin{bmatrix} 1 \\ 1 \end{bmatrix} \right\| = \sqrt{(\quad)^2 + (\quad)^2}$$

$$= \sqrt{\quad + \quad}$$

$$= \sqrt{\quad}$$

$$9. \left\| \begin{bmatrix} \frac{1}{\sqrt{2}} \\ \frac{1}{\sqrt{2}} \end{bmatrix} \right\| = \sqrt{\left(\frac{\quad}{\quad}\right)^2 + \left(\frac{\quad}{\quad}\right)^2}$$

$$= \sqrt{\left(\frac{\quad}{\quad}\right)^2 + \left(\frac{\quad}{\quad}\right)^2}$$

$$= \sqrt{\quad}$$

$$= \quad$$

$$10. \left\| \begin{bmatrix} \frac{3}{5} \\ \frac{4}{5} \end{bmatrix} \right\| = \sqrt{\left(\frac{\quad}{\quad}\right)^2 + \left(\frac{\quad}{\quad}\right)^2}$$

$$= \sqrt{\left(\frac{\quad}{\quad}\right)^2 + \left(\frac{\quad}{\quad}\right)^2}$$

$$= \sqrt{\quad}$$

$$= \quad$$