# Magnitude of a Vector
## Worksheet 1

Answer each of the following using the boxes provided for your answers.
Show all of your working.

*Click on the link in the Header of this page, or scan the QR Code, to view the online notes, tutorial(s) and answers for this worksheet.*

## Question 1

Calculate the magnitude of the vector $\vec{a} = \begin{pmatrix} 8 \\ 6 \end{pmatrix}$.

## Question 2

Calculate the magnitude of the vector $\vec{b} = \begin{pmatrix} 2 \\ 5 \end{pmatrix}$.

## Question 3

Calculate the magnitude of the vector $\vec{c} = \begin{pmatrix} -2 \\ 3 \end{pmatrix}$.

## Question 4

Calculate the magnitude of the vector $\vec{d} = \begin{pmatrix} -4 \\ 5 \end{pmatrix}$.

## Question 5

Calculate the magnitude of the vector $\vec{e} = \begin{pmatrix} 0 \\ 4 \end{pmatrix}$.

## Question 6

Calculate the magnitude of the vector $\vec{f} = \begin{pmatrix} 2 \\ -2 \end{pmatrix}$.

## Question 7

Calculate the magnitude of the vector $\vec{g} = \begin{pmatrix} 5 \\ -12 \end{pmatrix}$.

## Question 8

Calculate the magnitude of the vector $\vec{h} = \begin{pmatrix} -4 \\ 3 \end{pmatrix}$.