



## Resolve vectors into components

- 1 Write the horizontal (x) component of u.

$$|\vec{u}| = 10, \quad \theta = 30^\circ$$

A  $10 \sin(30^\circ)$

B  $10 \tan(30^\circ)$

C  $10 \cos(30^\circ)$

- 3 Find the direction that the given (x,y) change would be

**(-2,2)**

A Left 2, Up 1

B Left 2, Up 3

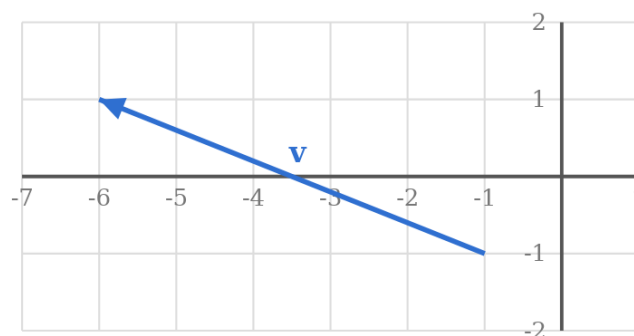
C Right 2, Up 2

D Left 2, Up 2

E Left 2, Down 2

F Left 1, Up 2

- 2 Write the vector shown on the grid in column matrix form.



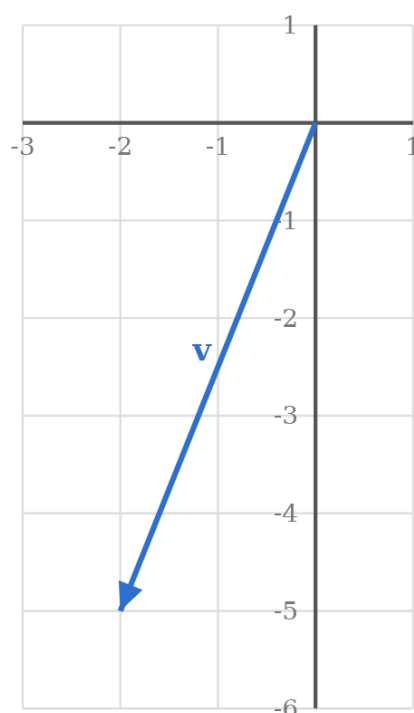
A  $\begin{bmatrix} 5 \\ -2 \end{bmatrix}$

B  $\begin{bmatrix} -5 \\ 2 \end{bmatrix}$

C  $\begin{bmatrix} -5 \\ -2 \end{bmatrix}$

D  $\begin{bmatrix} -4 \\ 1 \end{bmatrix}$

- 4 Write the vector shown on the grid in row matrix form.



A  $[-2, -5]$

B  $[2, -5]$

C  $[2, 5]$

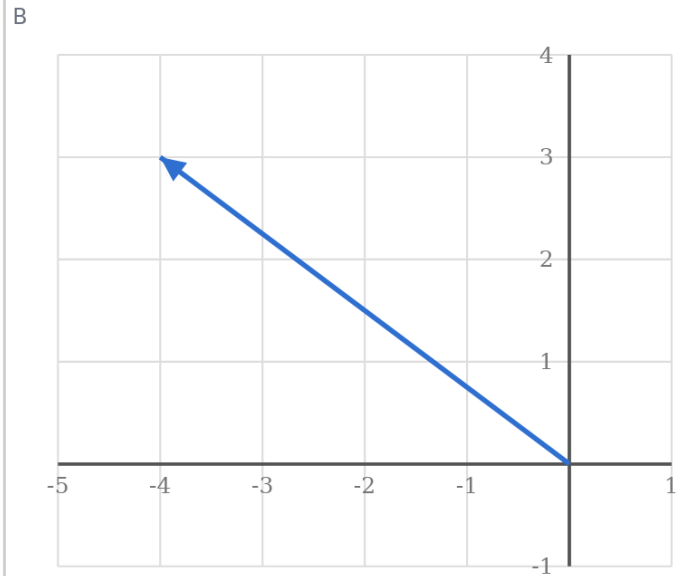
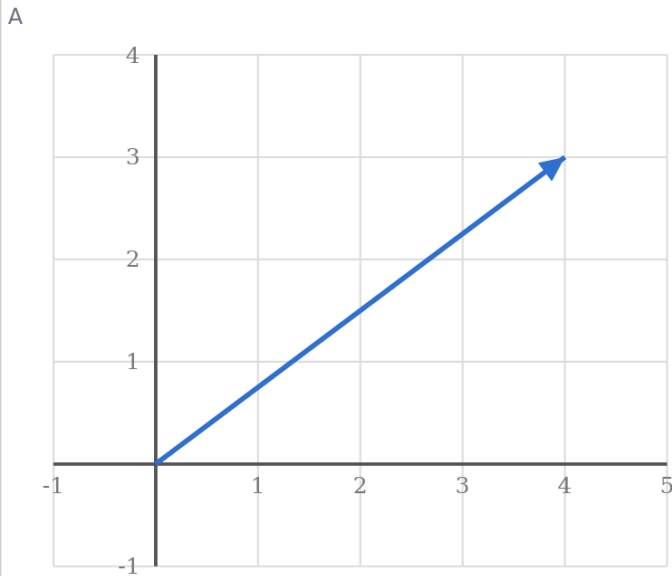
D  $[-1, -6]$



## Resolve vectors into components

- 5 Choose the grid that shows this vector with its base at the origin.

$$\vec{v} = \begin{bmatrix} -4 \\ 3 \end{bmatrix}$$



- 6 Choose the grid that shows this vector with its base at the marked point.

$$\vec{v} = [3, 3]$$

