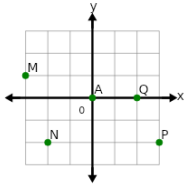




Represent vectors geometrically

1

Starting at 'A' and moving by (3,-2) will land on what point?



A N

B Q

C P

D M

2

(-4,1)

A

Left 1, Down 4

B

Left 4

C

Left 4, Up 1

D

Left 3, Up 1

E

Left 4, Down 1

F

Right 1, Up 4

3

Right 2, Up 3

A

(3,3)

B

(2,-3)

C

(2,3)

D

(1,3)

E

(2,4)

F

(-2,3)

4

Find the (x,y) change that the given move between (x,y) coordinates A and B would be

Point A : (0,1)

Point B : (0,0)

A (0,1)

B (-1,0)

C (1,-1)

D (0,-1)

E (1,0)

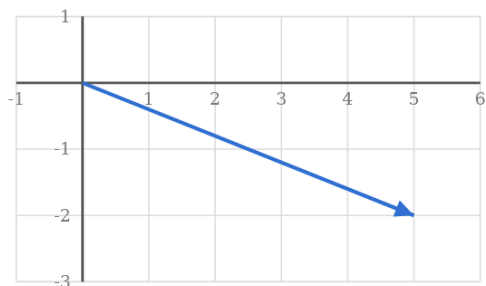
F (-1,-1)

5

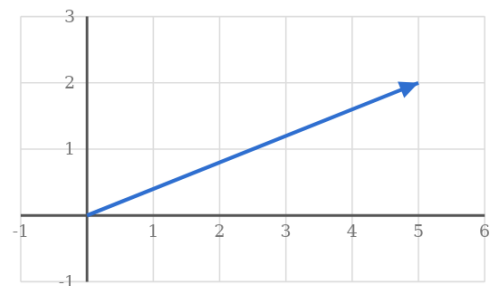
Choose the grid that shows this vector with its base at the origin.

$$\vec{v} = [-5, 2]$$

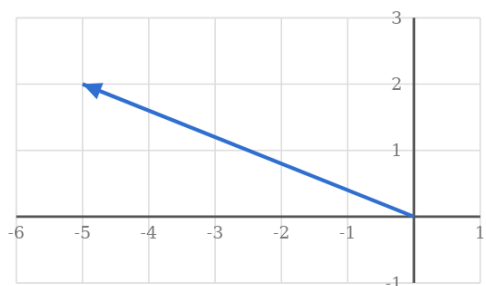
A



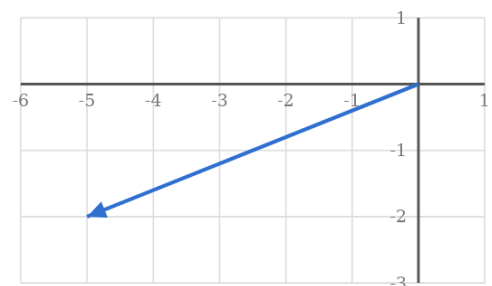
B



C



D





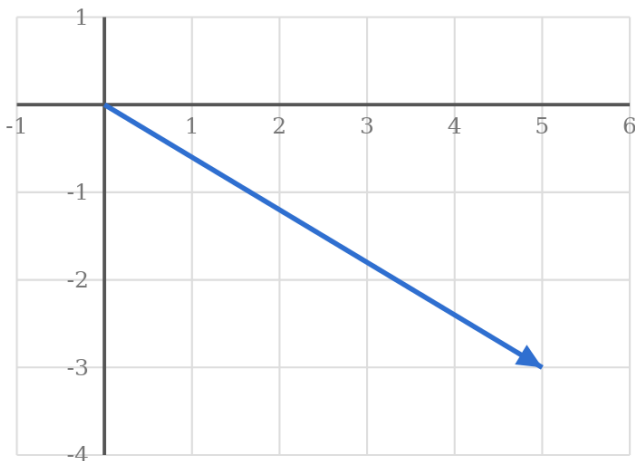
Represent vectors geometrically

6

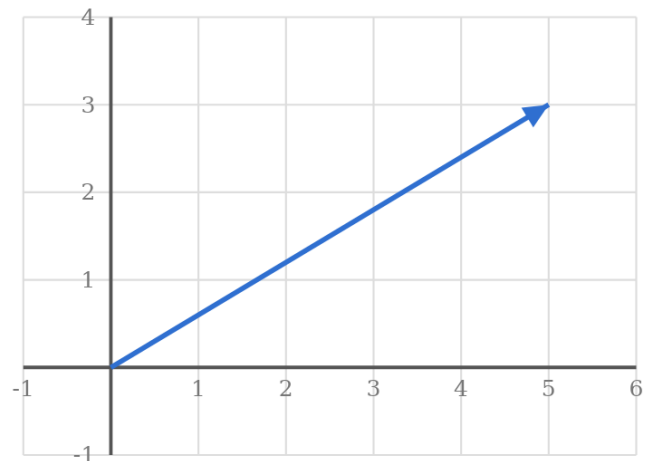
Choose the grid that shows this vector with its base at the origin.

$$\vec{v} = \begin{bmatrix} 5 \\ -3 \end{bmatrix}$$

A

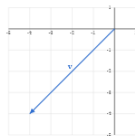


B



7

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



A $[4, 4]$

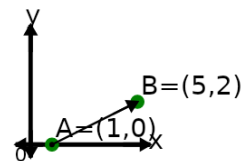
B $[4, -4]$

C $[-4, -4]$

D $[-3, -5]$

8

Find the (x,y) change to go from point A to point B on the diagram



A (2,-4)

B (4,3)

C (-4,2)

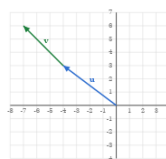
D (3,2)

E (4,2)

F (4,1)

9

Use the grid to find the sum of the two vectors.



A $\vec{u} + \vec{v} = [-4 + 3, 3 + -3]$

B $\vec{u} + \vec{v} = [-4 + -3, 3 - 3]$

C $\vec{u} + \vec{v} = [-4 + -3, 3 + 3]$

D $\vec{u} + \vec{v} = [-4 - -3, 3 - 3]$



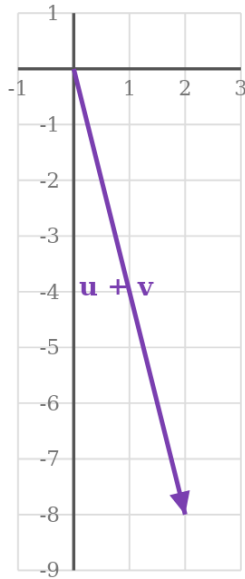
Represent vectors geometrically

10

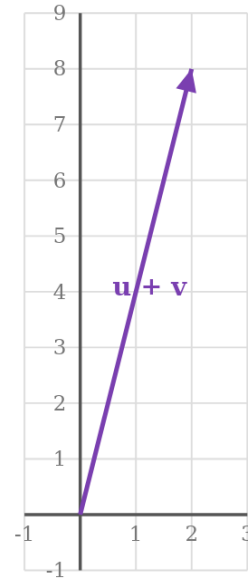
Choose the grid that shows the sum vector $u + v$.

$$\vec{u} = \begin{bmatrix} -2 \\ -4 \end{bmatrix}, \quad \vec{v} = \begin{bmatrix} 4 \\ -4 \end{bmatrix}$$

A

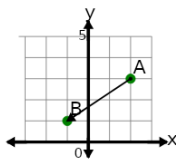


B



11

Find the (x,y) change to go from point A to point B on the diagram



A (-2,-3)

B (-3,2)

C (-3,-2)

D (-2,-2)

E (3,-2)

F (2,-3)

12

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



A $[-2, -2]$

B $[2, -2]$

C $[-2, 2]$

D $[2, 2]$

13

Use the grid to find the sum of the two vectors.



A $\vec{u} + \vec{v} = [-3, 5]$

B $\vec{u} + \vec{v} = [3, 5]$

C $\vec{u} + \vec{v} = [3, -5]$

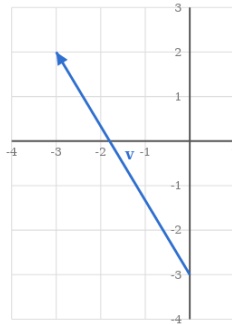
D $\vec{u} + \vec{v} = [-5, 3]$



Represent vectors geometrically

14

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



A

$$\begin{bmatrix} -3 \\ 5 \end{bmatrix}$$

B

$$\begin{bmatrix} 3 \\ -5 \end{bmatrix}$$

C

$$\begin{bmatrix} 3 \\ 5 \end{bmatrix}$$

D

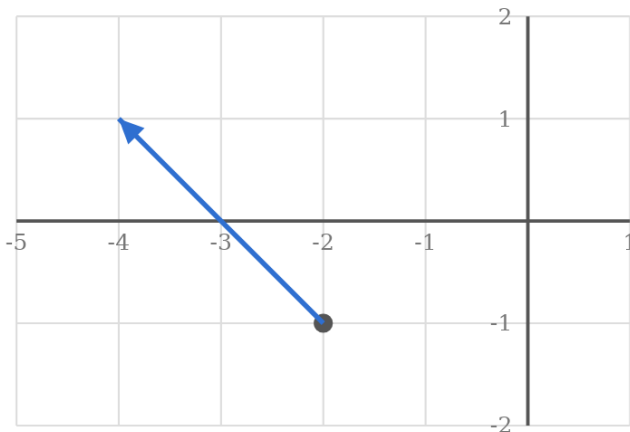
$$\begin{bmatrix} 5 \\ -3 \end{bmatrix}$$

15

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

$$\vec{v} = [-2, -2]$$

A



B

