

## Vector Drawing Practice

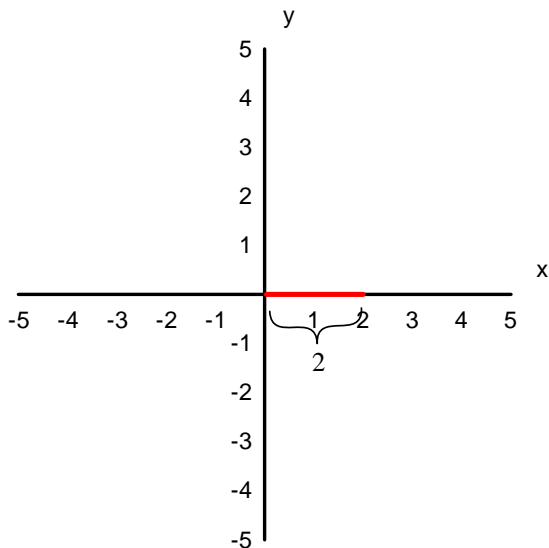
Directions: Draw each vector as indicated by the instructions. Do not be afraid of vectors. They don't bite, but they might prick you because they're pointy :)

$$\vec{v} = \langle 2, 4 \rangle$$

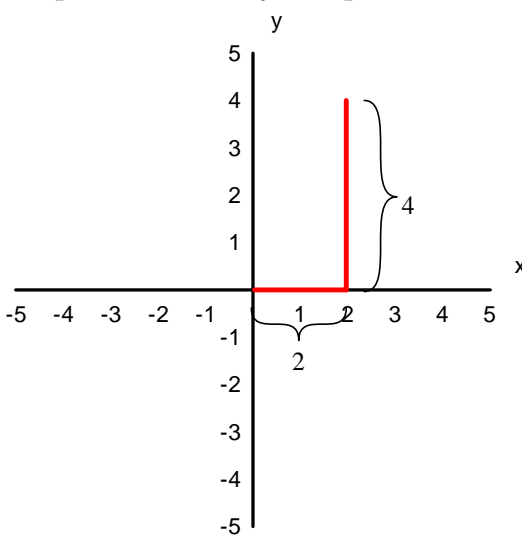
identify the x-component: 2

identify the y-component: 4

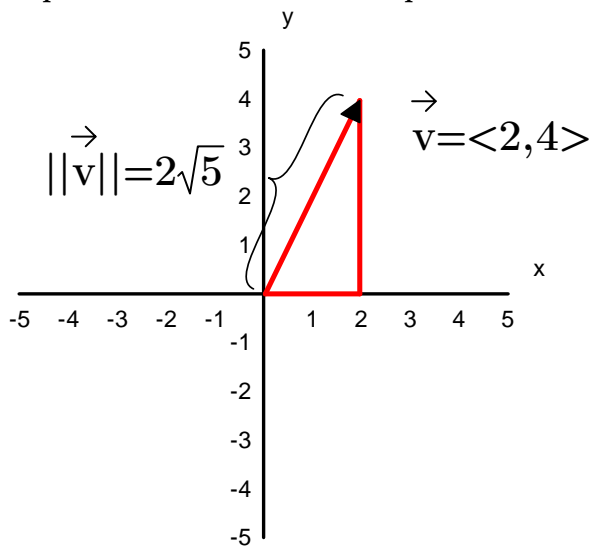
Step 1: Draw the x component.



Step 2: Draw the y component.



Step 3: Draw the arrow to represent the vector.



Remember this important rule:  $\sqrt{ab} = \sqrt{a}\sqrt{b}$

Find the magnitude:

$$\|\vec{v}\| = \sqrt{2^2 + 4^2} = \sqrt{4 + 16} = \sqrt{20} = \sqrt{4 \cdot 5} = \sqrt{4} \cdot \sqrt{5} = 2\sqrt{5}$$

This is approximately 4.472.

## Vector Drawing Practice

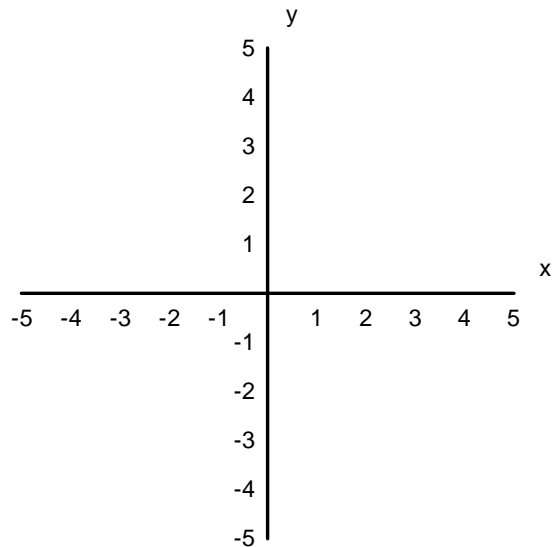
Directions: Draw each vector as indicated by the instructions. Do not be afraid of vectors. They don't bite, but they might prick you because they're pointy :) Be sure to label the pictures as shown in the example. Labeling means you're learning to see the detail.

$$\vec{v} = \langle 1, 2 \rangle$$

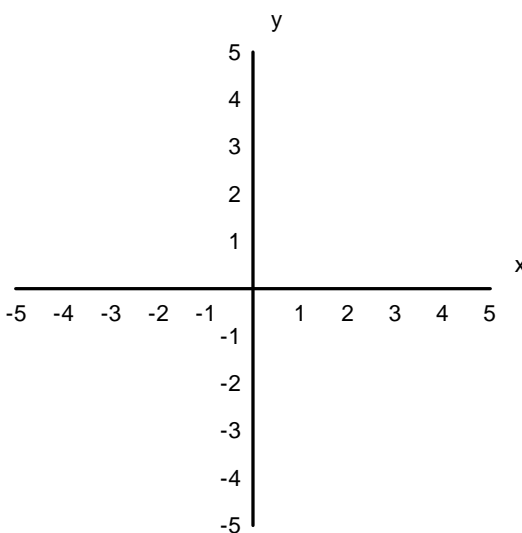
identify the x-component:

identify the y-component:

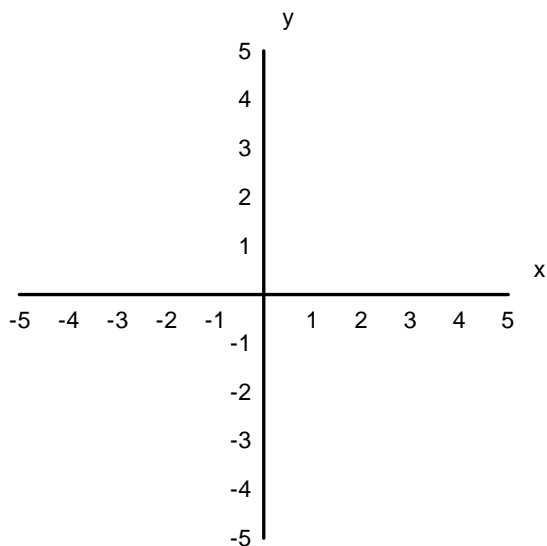
Step 1: Draw the x component.



Step 2: Draw the y component.



Step 3: Draw the arrow to represent the vector.



Remember this important rule:  $\sqrt{ab} = \sqrt{a}\sqrt{b}$

Find the magnitude:

$$||\vec{v}|| =$$

This is approximately

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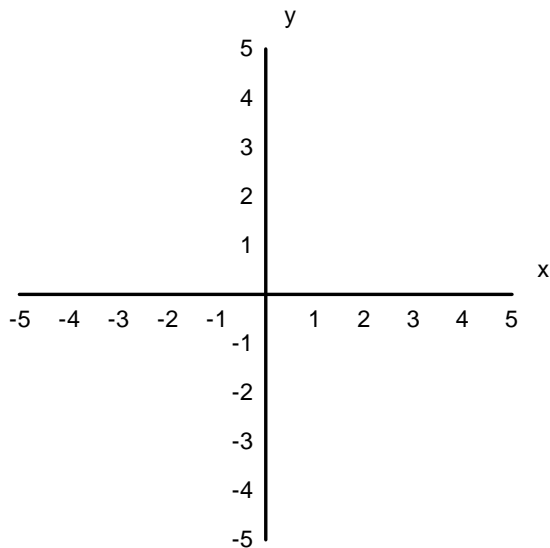
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$$\vec{v} = \langle -1, 2 \rangle$$

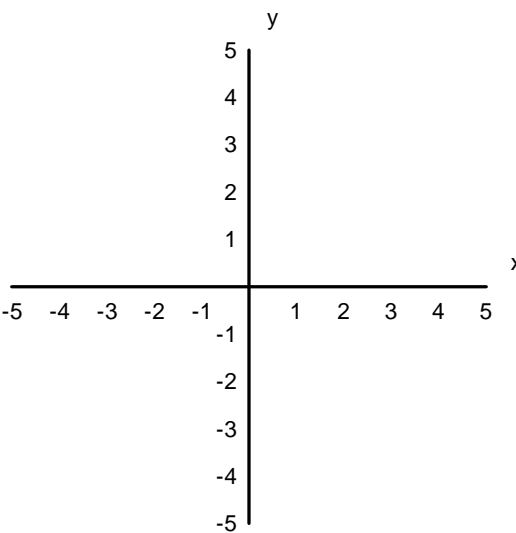
identify the x-component:

identify the y-component:

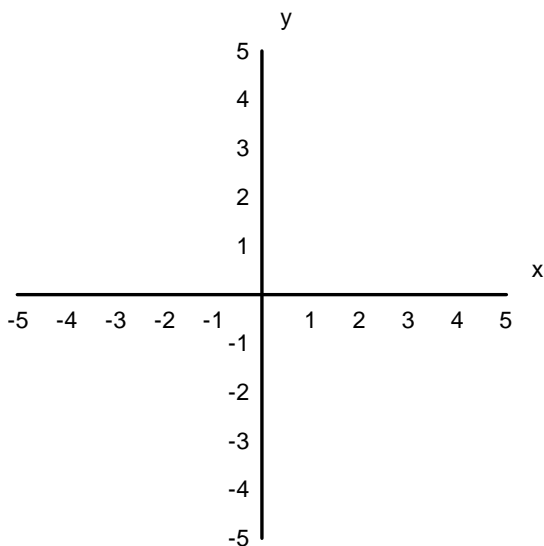
Step 1: Draw the x component.



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Remember this important rule:  $\sqrt{ab} = \sqrt{a}\sqrt{b}$

Find the magnitude:

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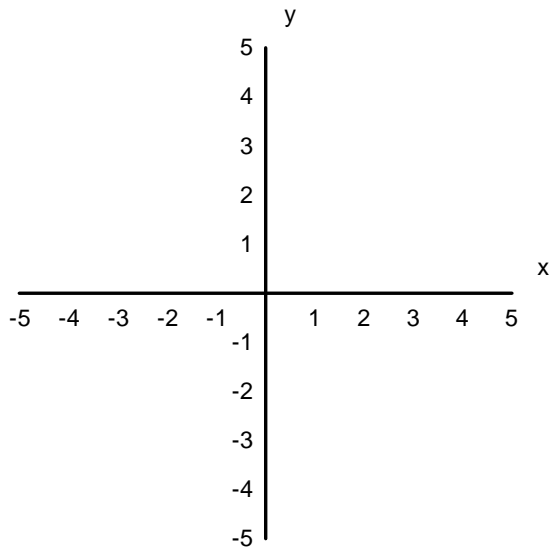
$\vec{v}$

$$\vec{v} = \langle -2, 1 \rangle$$

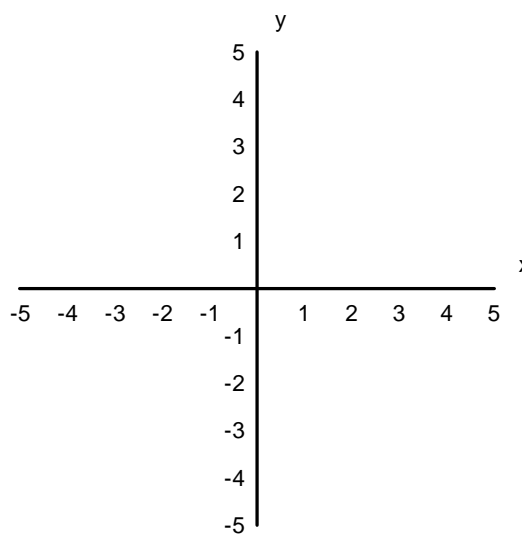
identify the x-component:

identify the y-component:

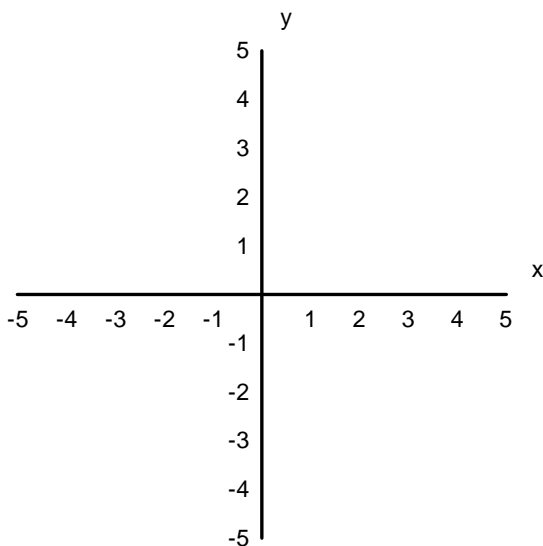
Step 1: Draw the x component.



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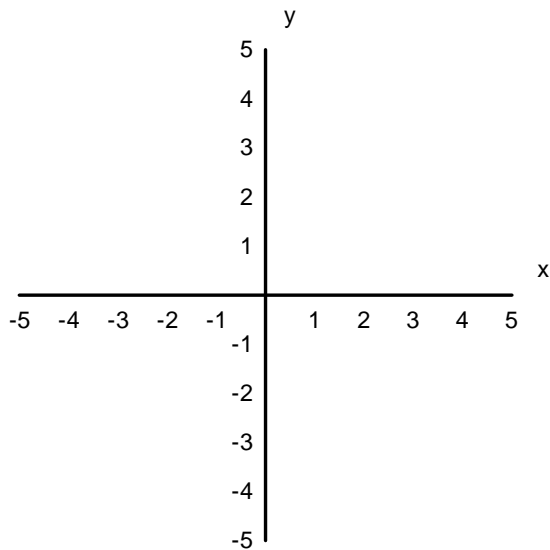
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$$\vec{v} = \langle -3, -2 \rangle$$

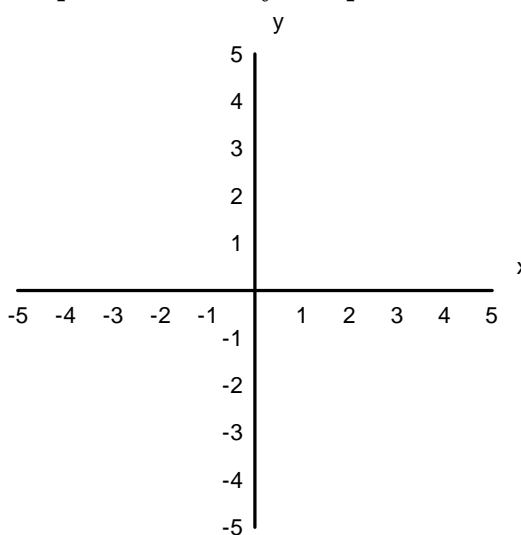
identify the x-component:

identify the y-component:

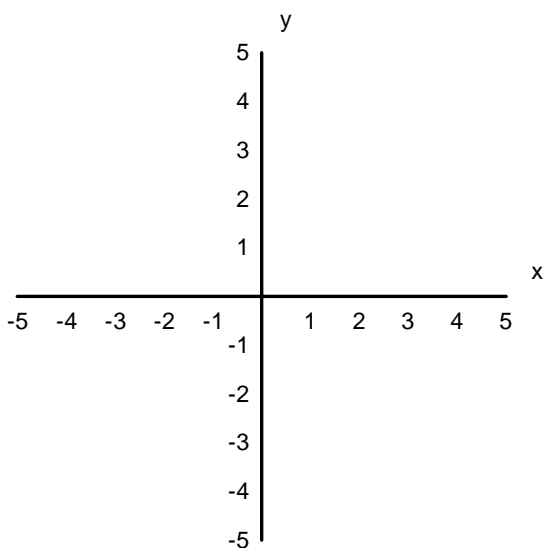
Step 1: Draw the x component.



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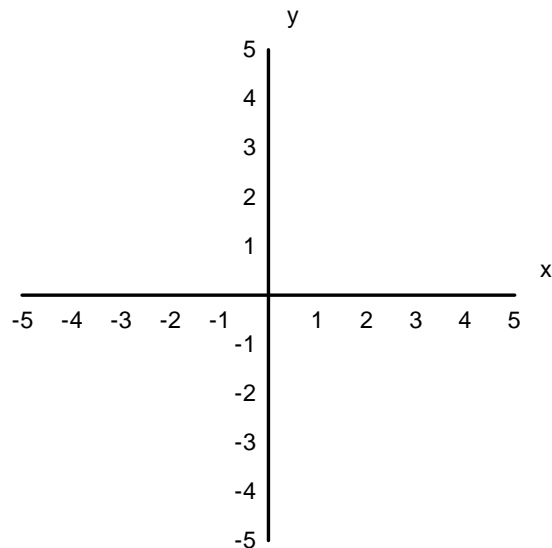
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$$\vec{v} = \langle -5, -4 \rangle$$

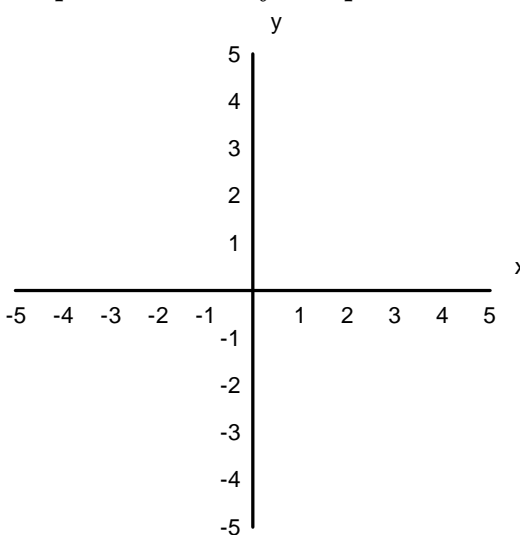
identify the x-component:

identify the y-component:

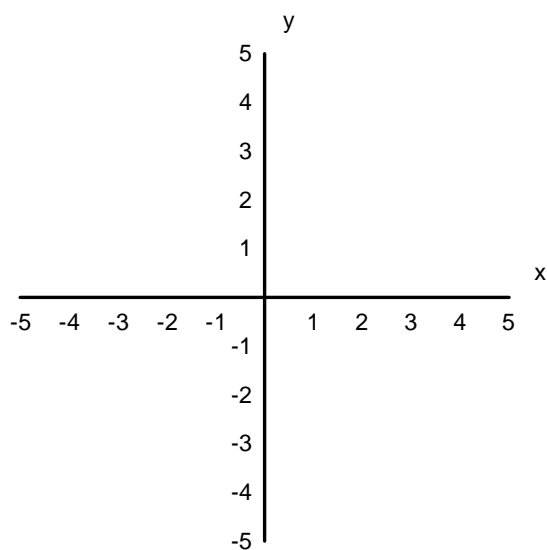
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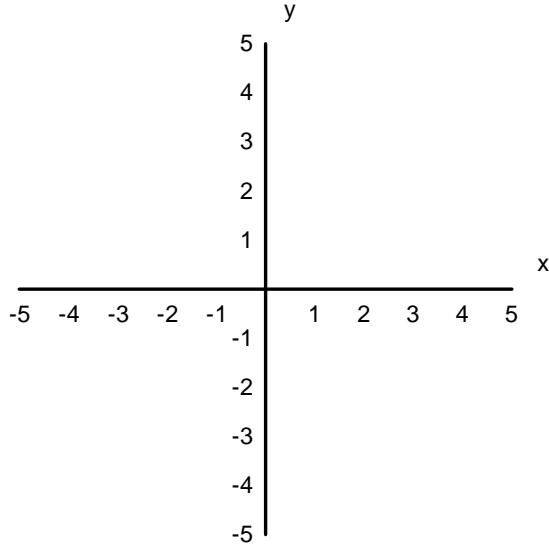
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$$\vec{v} = \langle 4, -2 \rangle$$

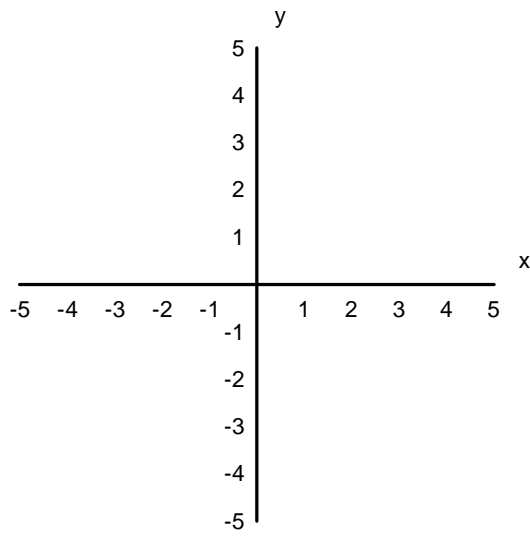
identify the x-component:

identify the y-component:

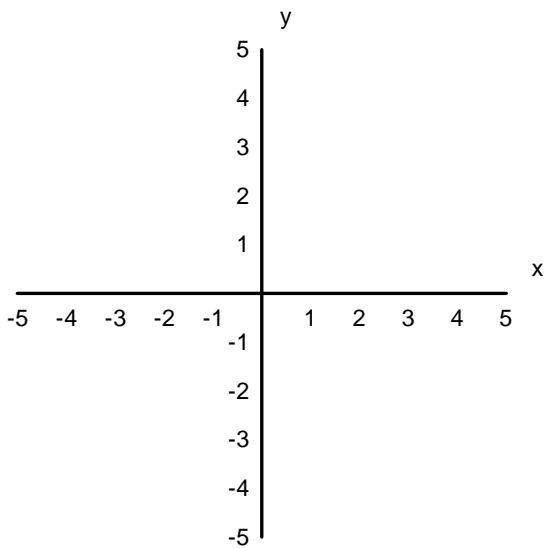
Step 1: Draw the x component.



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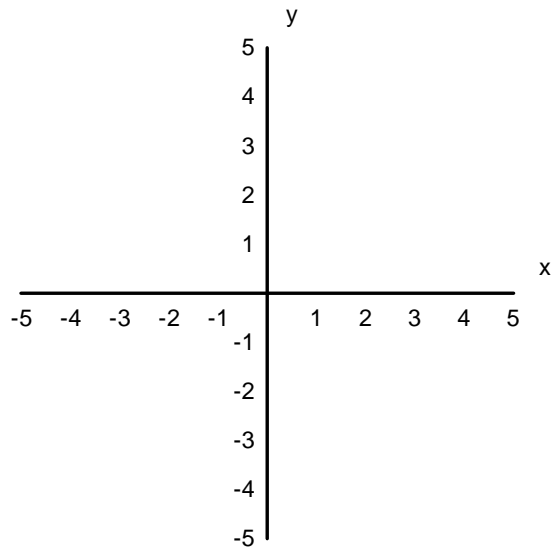
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$$\vec{v} = \langle 0, -2 \rangle$$

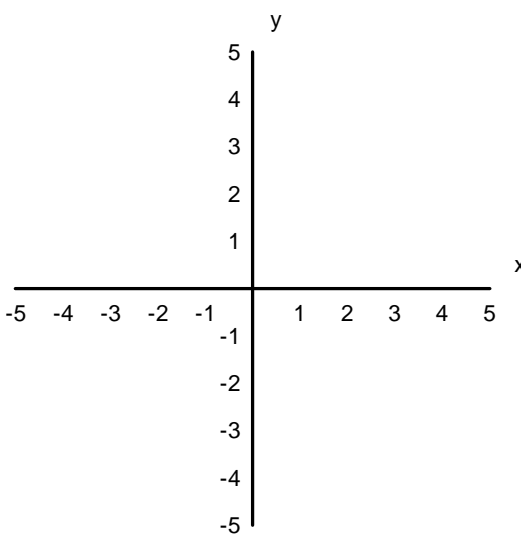
identify the x-component:

identify the y-component:

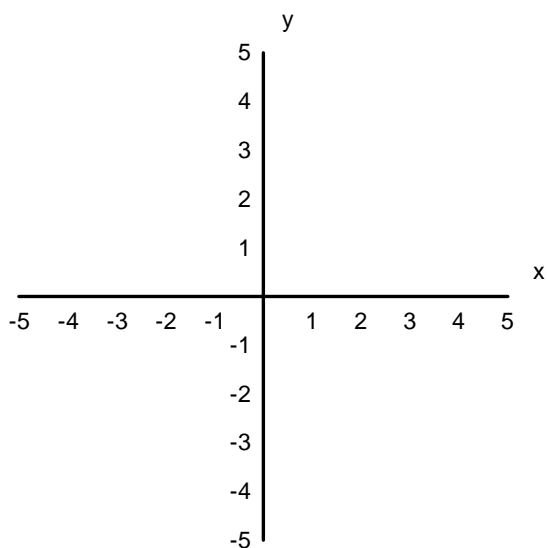
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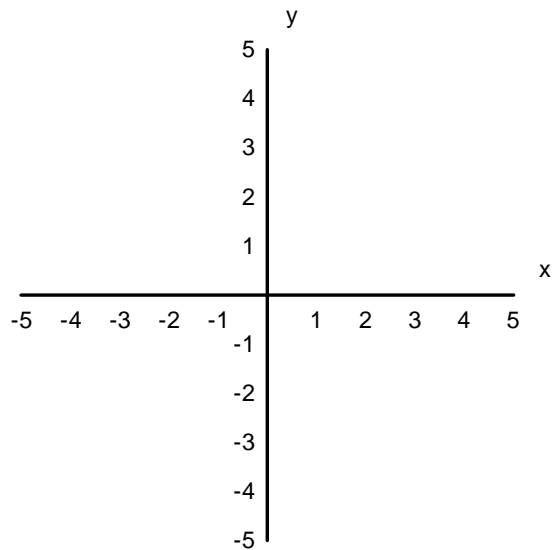
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$$\vec{v} = \langle -5, 0 \rangle$$

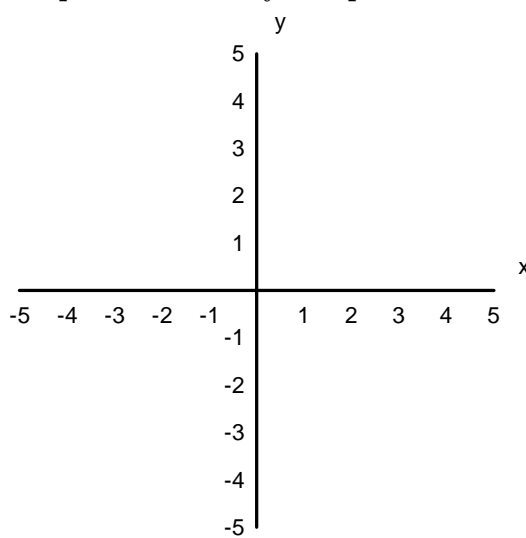
identify the x-component:

identify the y-component:

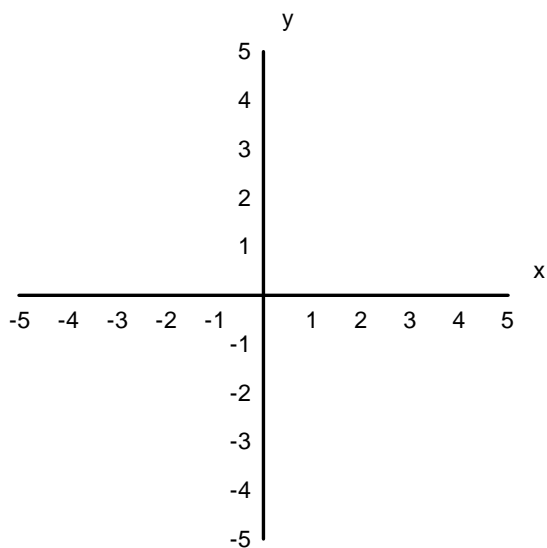
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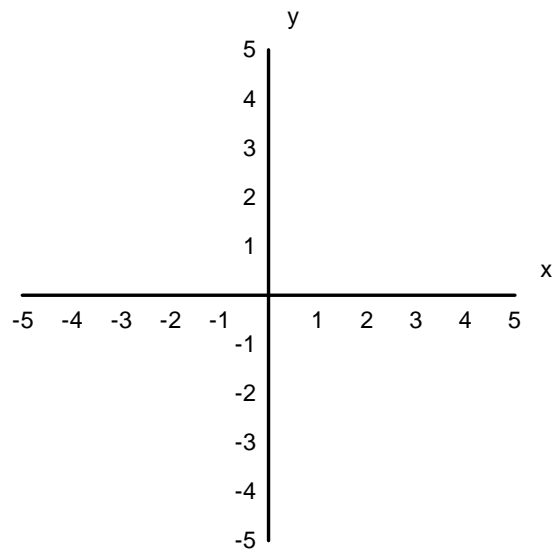
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$$\vec{v} = \langle 0, 3 \rangle$$

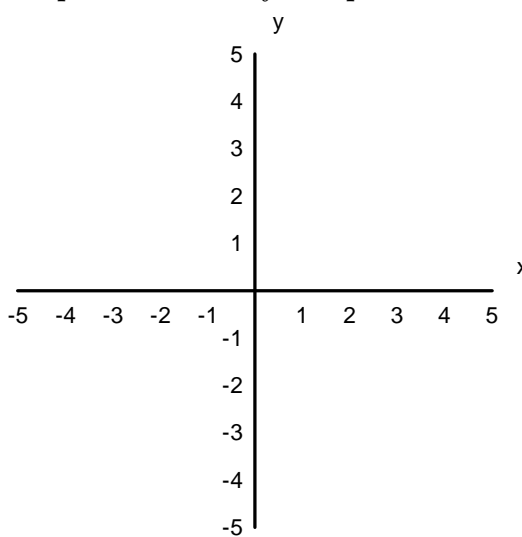
identify the x-component:

identify the y-component:

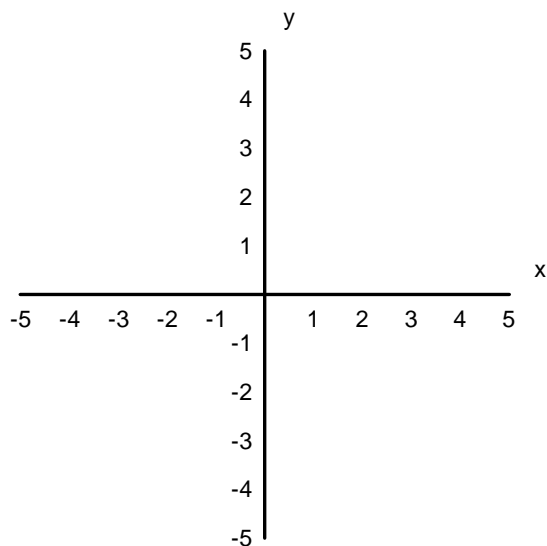
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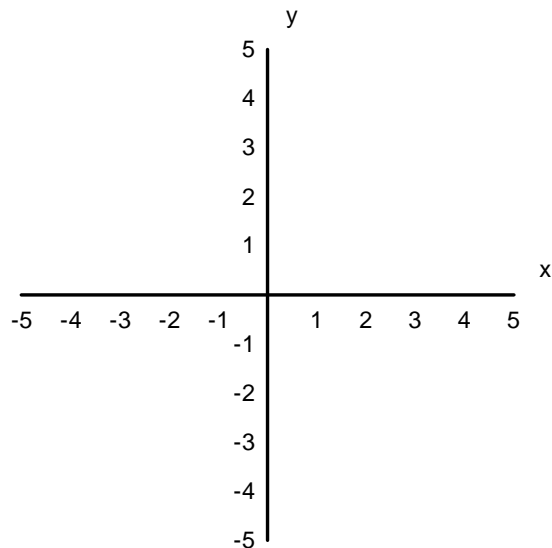
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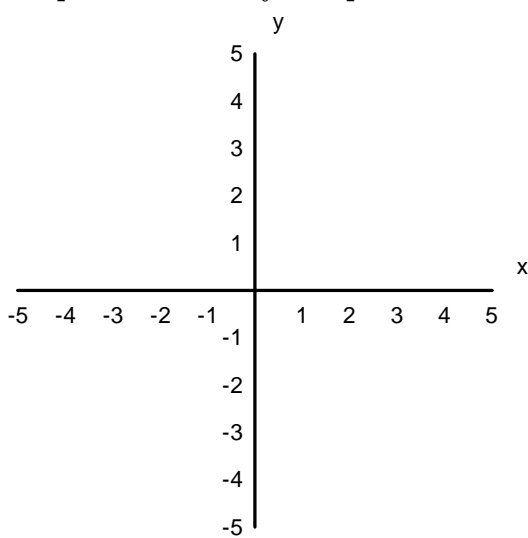
identify the x-component:

identify the y-component:

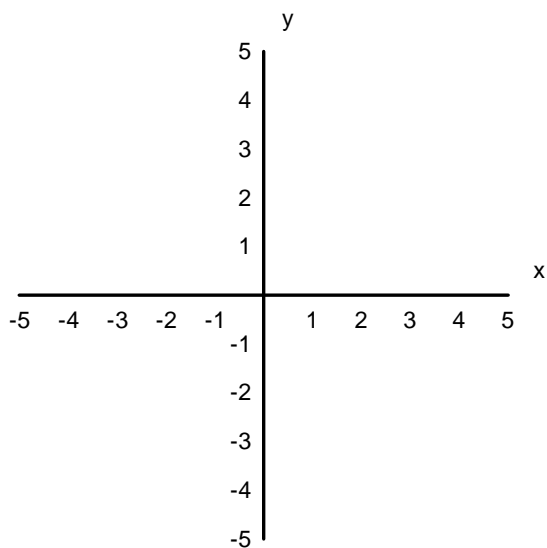
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