www.iTutoring.com - NOTES

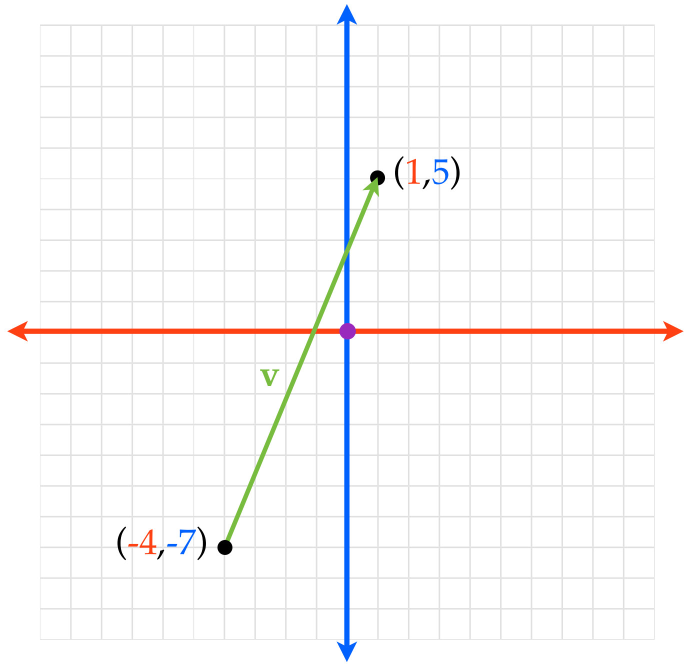
Magnitude of Vectors in <*a*,*b*> Component Form

Name ____________________

Date ____________ Period ______

Given **v** is has initial point $P(x_1,y_1)$ and terminal point $Q(x_2,y_2)$, then...

$$\|\mathbf{v}\| = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$



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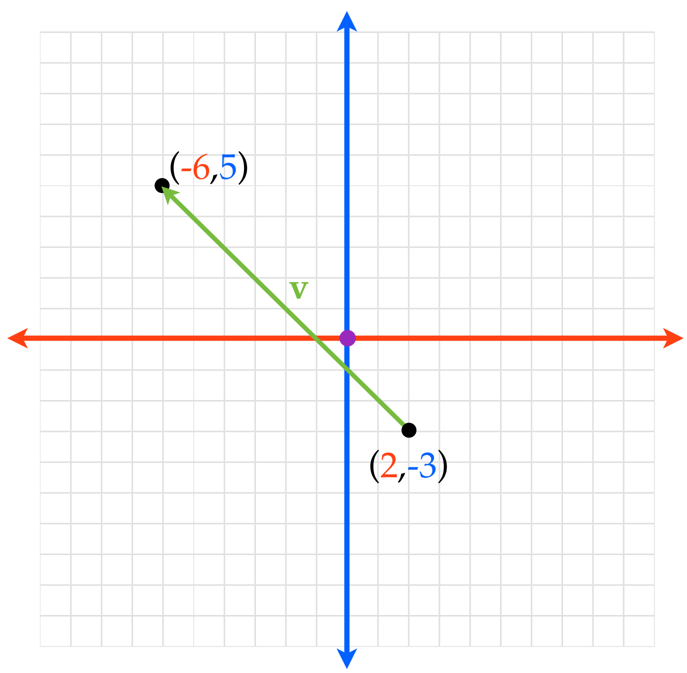
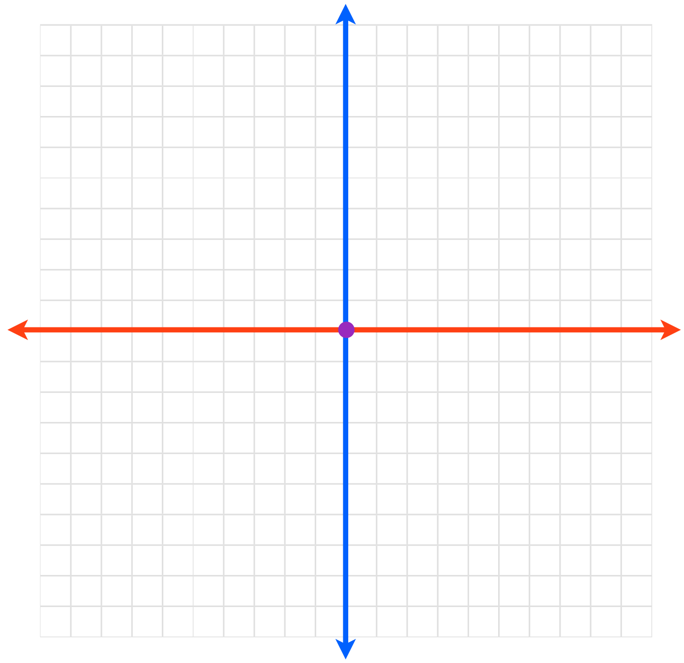


Given **v** is in standard position and expressed in component form $\mathbf{v} = \langle a, b \rangle$, then...

$$\|\mathbf{v}\| = \sqrt{a^2 + b^2}$$

$$\mathbf{v} = \langle 3, 4 \rangle$$



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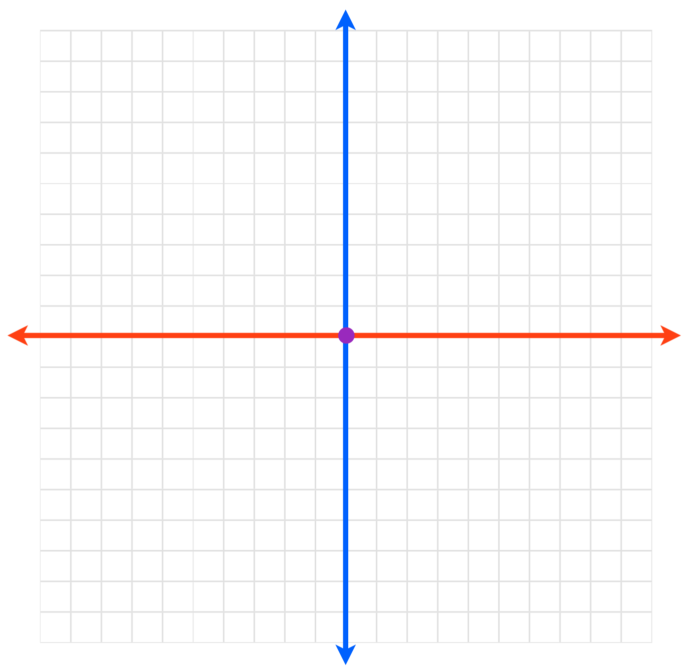
$$\mathbf{v} = \langle -8, -2 \rangle$$



Given **v** is in standard position and expressed in component form $\mathbf{v} = \langle a,b \rangle$, then...

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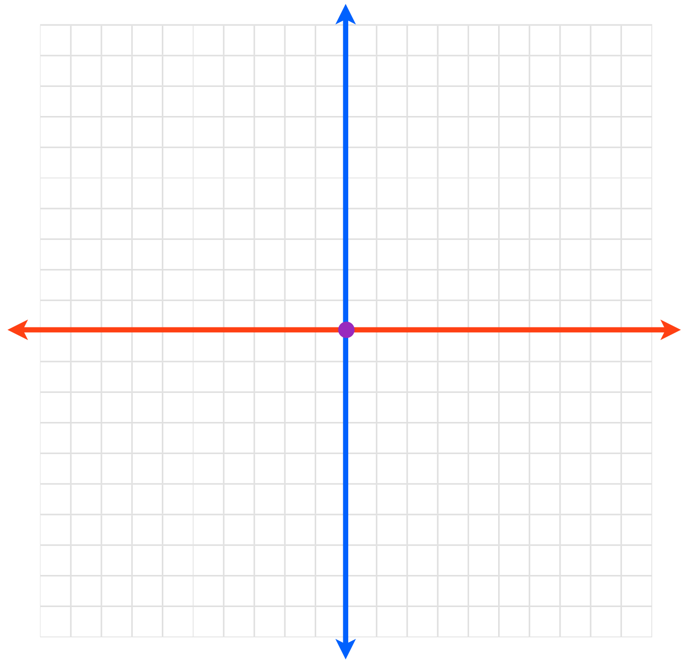
$$\mathbf{v} = \langle 3,-6 \rangle$$



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