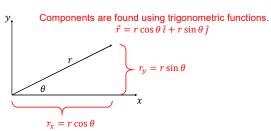
Review of vectors and vector components
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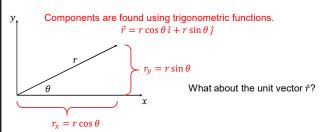
Review of vectors and vector components

If the magnitude r and direction θ relative to x-axis are provided:



Review of vectors and vector components

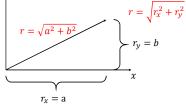
If the magnitude r and direction θ relative to x-axis are provided:



Review of vectors and vector components

If the components r_x and r_y are provided:

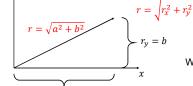
 $y_{\rm t}$ The magnitude is found using the Pythagorean Theorem.



Review of vectors and vector components

If the components r_x and r_y are provided, for example, $\vec{r} = a\hat{\imath} + b\hat{\jmath}$:

The magnitude is found using the Pythagorean Theorem.



 $r_x = a$

What about the unit vector \hat{r} ?