

$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

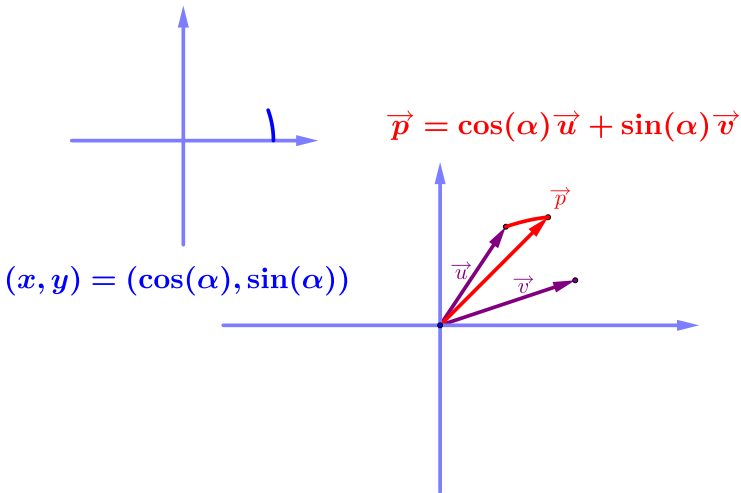
▶ Start

▶ End

$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

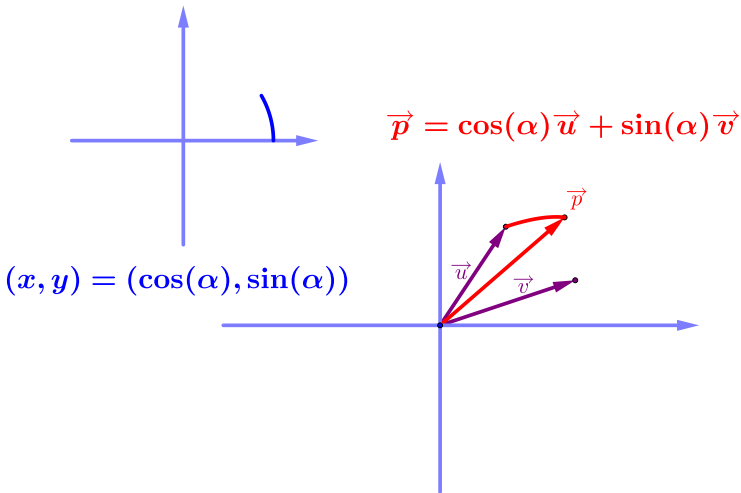
► End



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

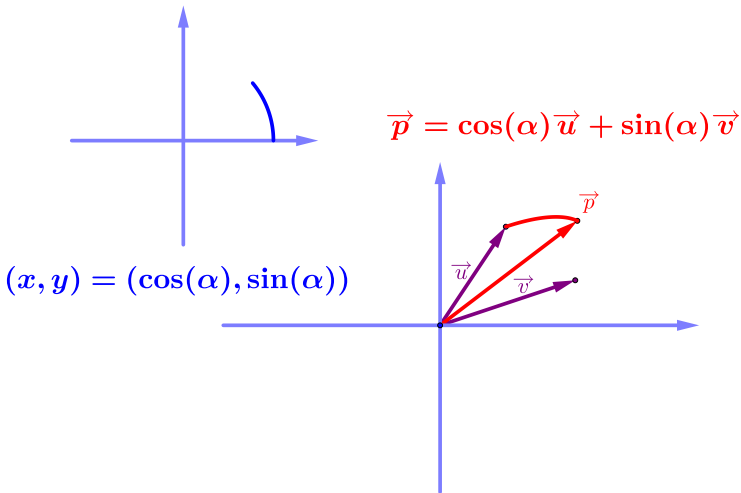
► End



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

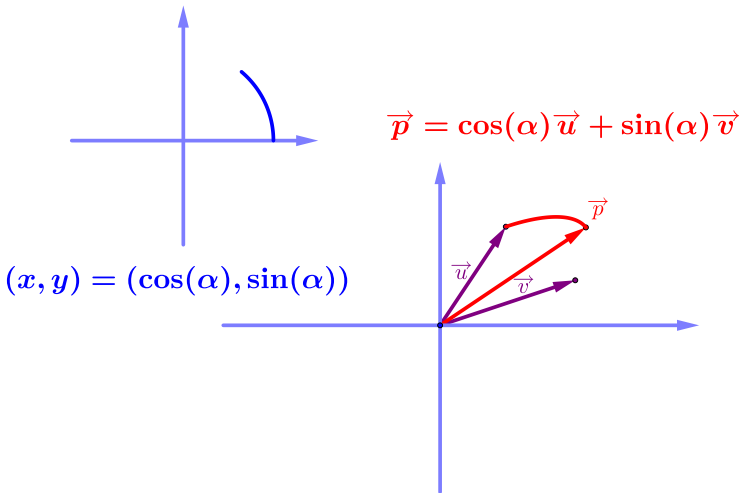
► End



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

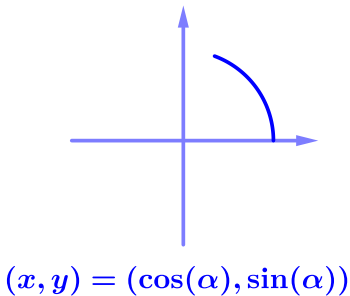
► End



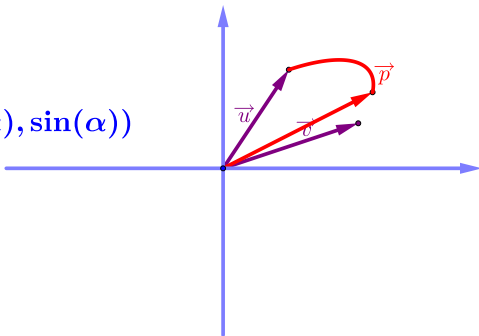
$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

► End



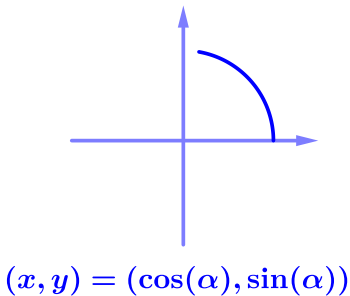
$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$



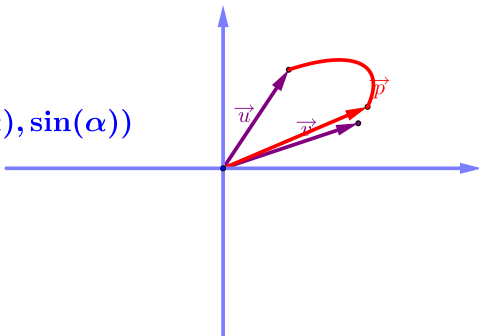
$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

► End



$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$

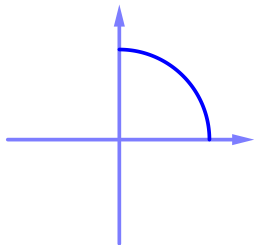


$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

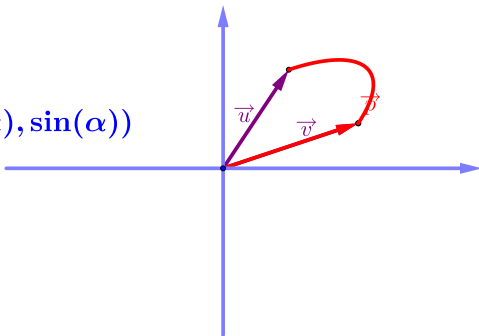
► Start

► End

$$(x, y) = (\cos(\alpha), \sin(\alpha))$$



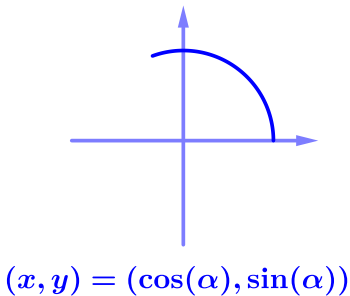
$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$



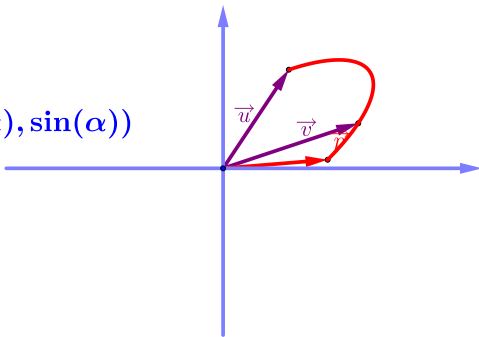
$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

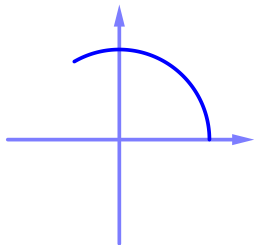
► End



$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$

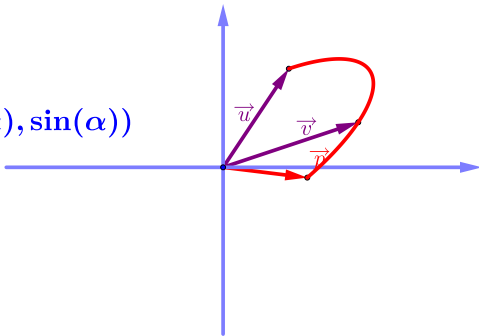


$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$



$$(x, y) = (\cos(\alpha), \sin(\alpha))$$

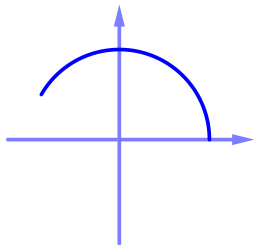
$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

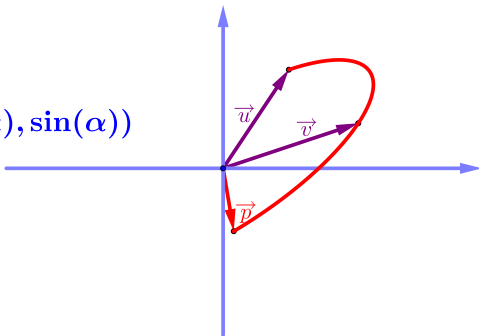
► Start

► End



$$(x, y) = (\cos(\alpha), \sin(\alpha))$$

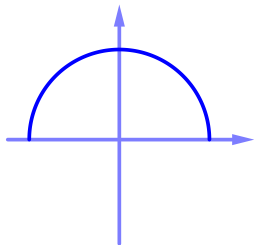
$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

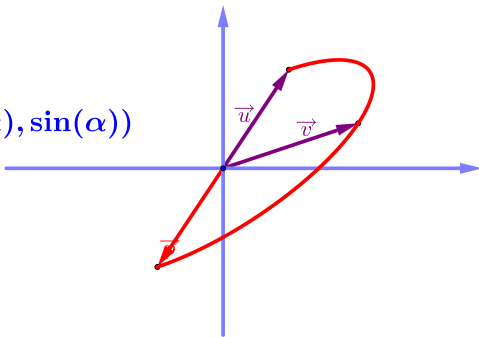
► Start

► End



$$(x, y) = (\cos(\alpha), \sin(\alpha))$$

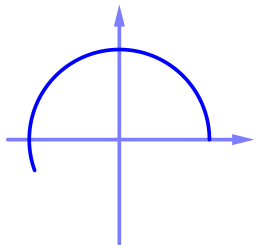
$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

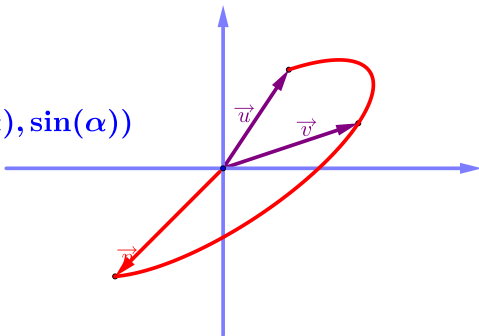
► Start

► End

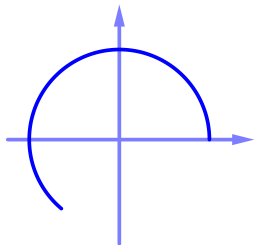


$$(x, y) = (\cos(\alpha), \sin(\alpha))$$

$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$

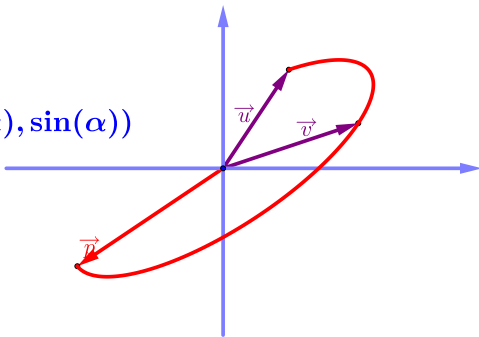


$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$



$$(x, y) = (\cos(\alpha), \sin(\alpha))$$

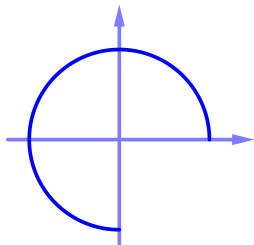
$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

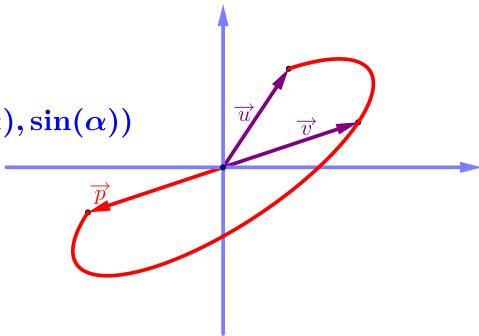
► Start

► End

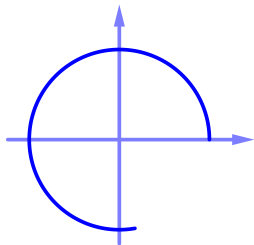


$$(x, y) = (\cos(\alpha), \sin(\alpha))$$

$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$

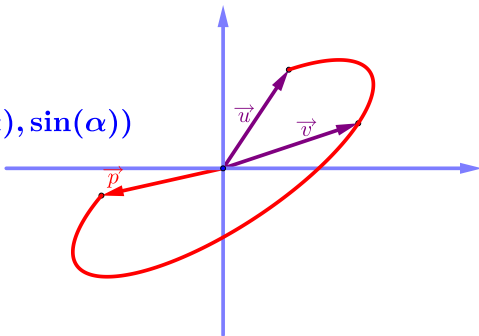


$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$



$$(x, y) = (\cos(\alpha), \sin(\alpha))$$

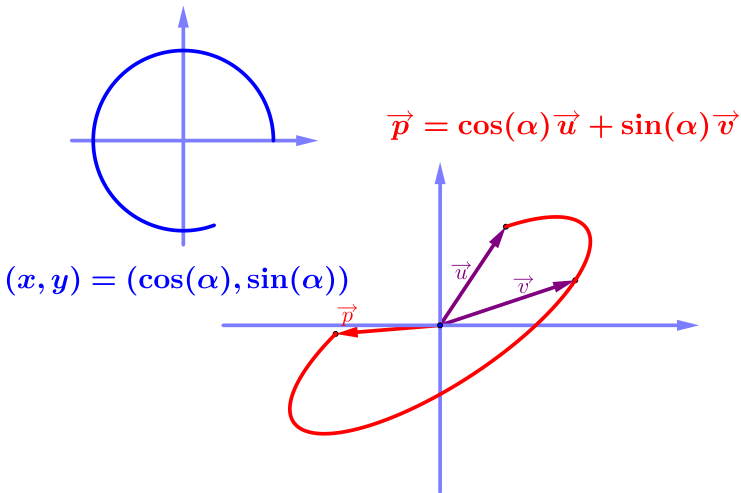
$$\vec{p} = \cos(\alpha) \vec{u} + \sin(\alpha) \vec{v}$$



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

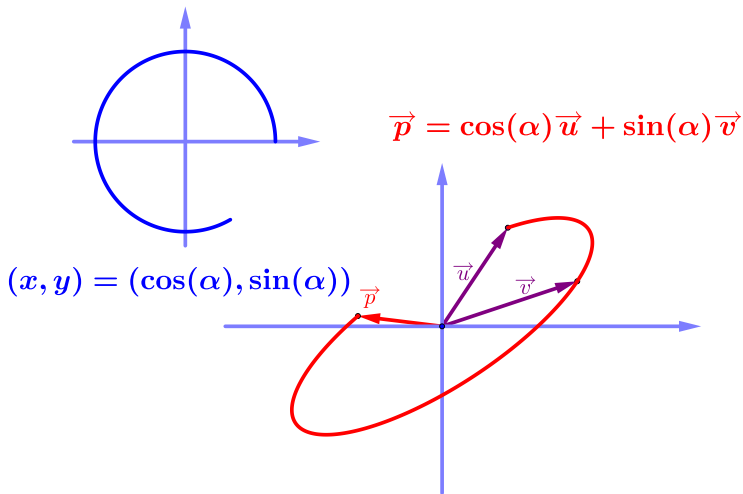
► End



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

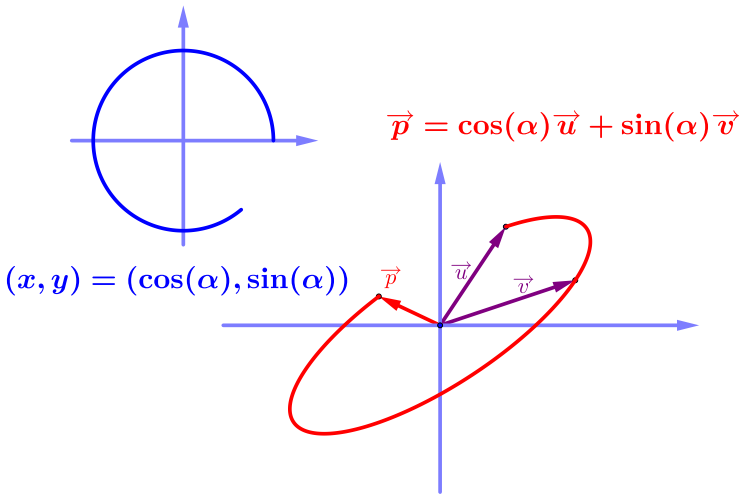
► End



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

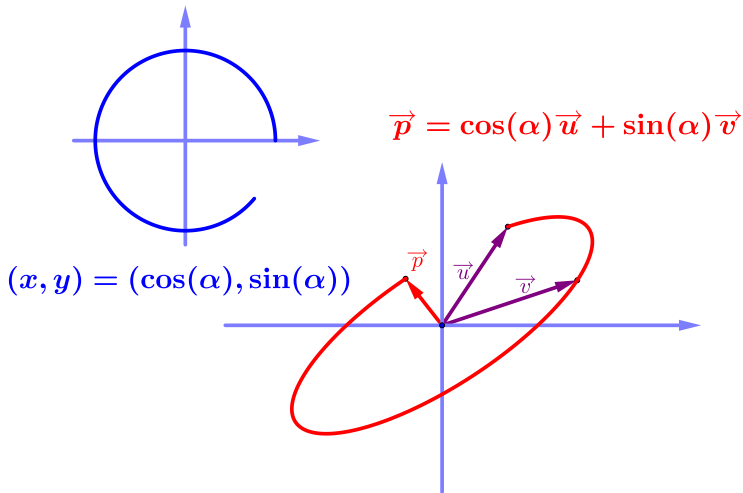
► End



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

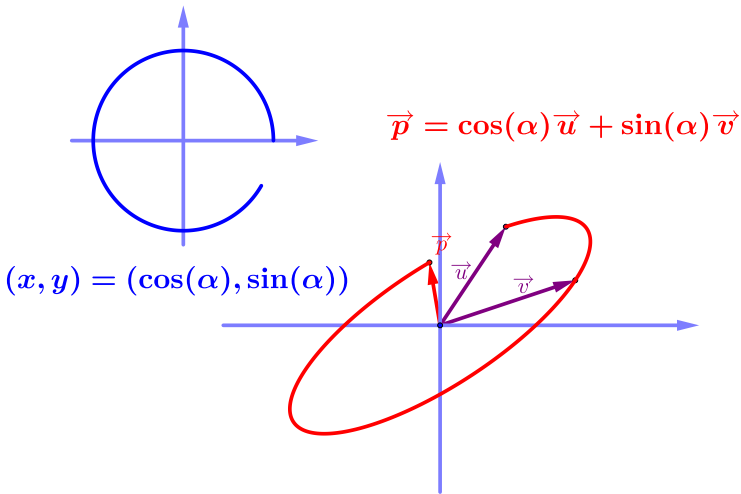
► End



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

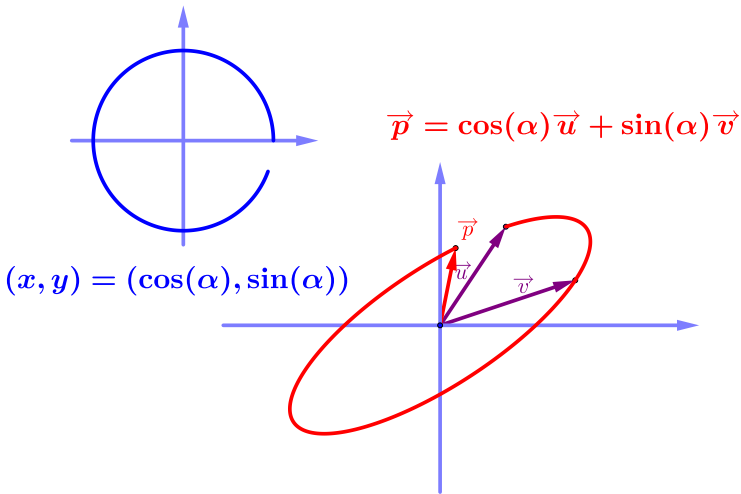
► End



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

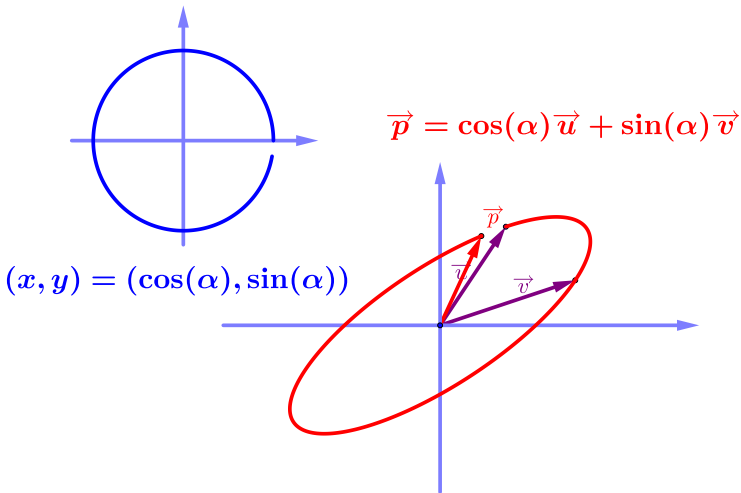
► End



$$\cos \alpha \vec{u} + \sin \alpha \vec{v}$$

► Start

► End



Github:

<https://min7014.github.io/math20221115001.html>

Click or paste URL into the URL search bar,
and you can see a picture moving.