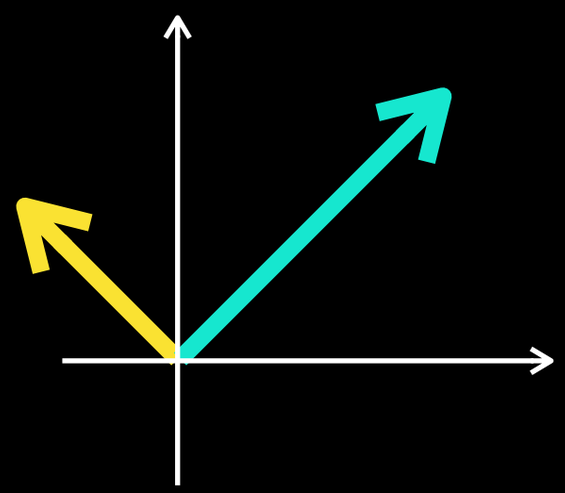
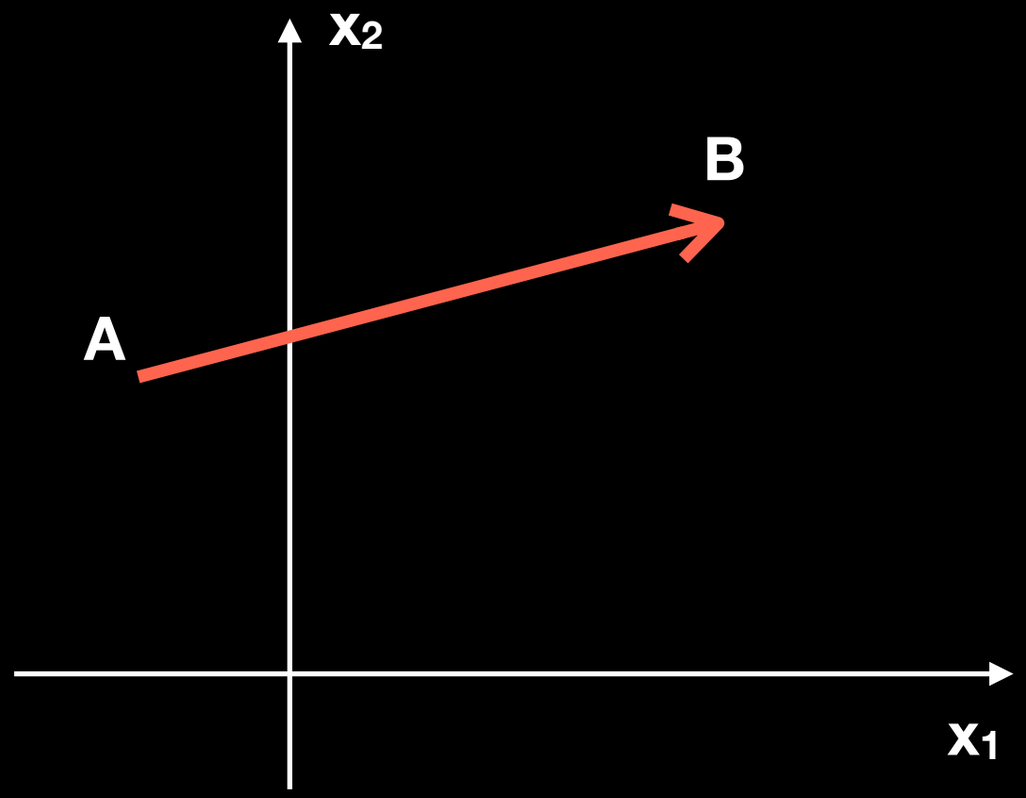
Geometric Properties

Linear Algebra Essentials

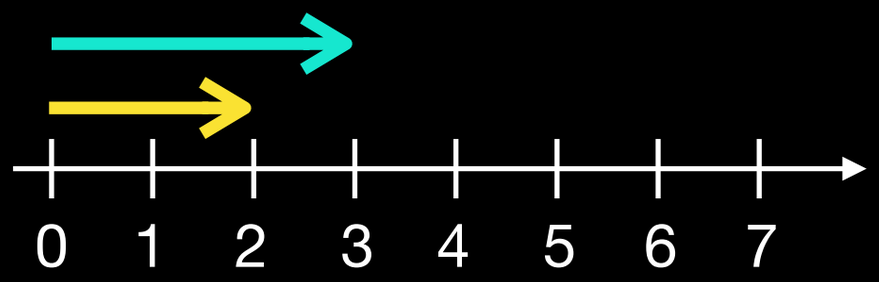


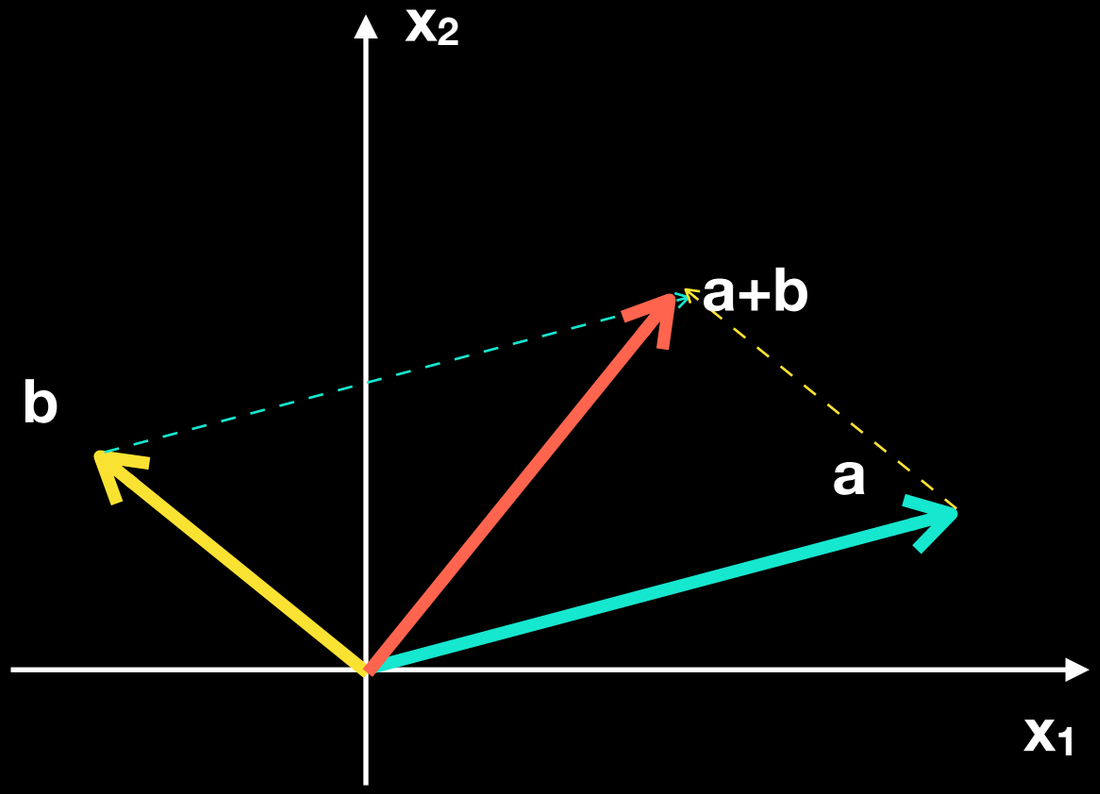
Is it a vector?



$\overrightarrow{AB}$ – *a vector?*

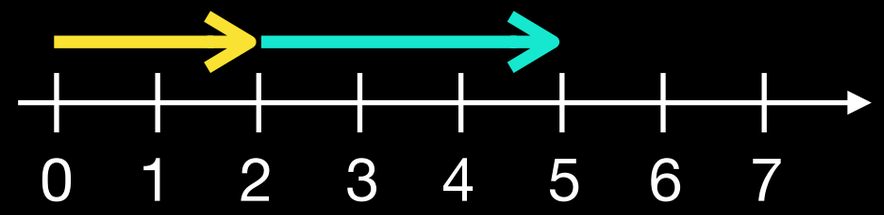
3 + 2 = 5

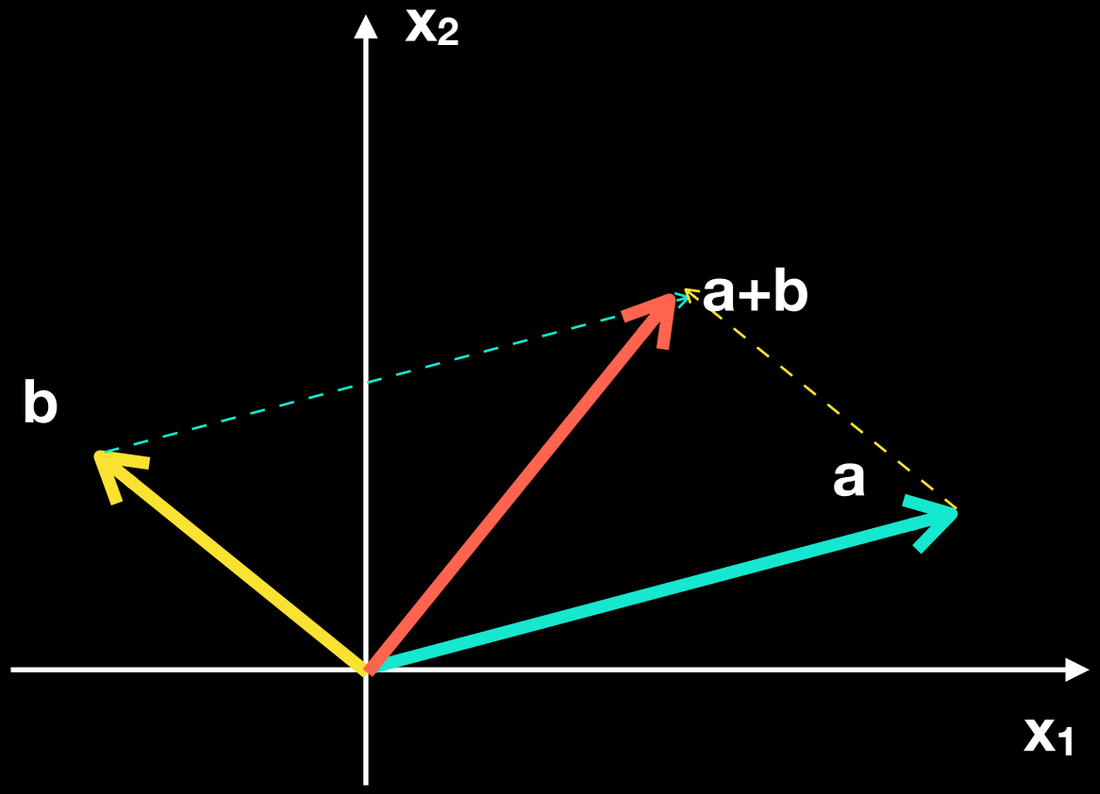




$$\vec{c} = \vec{a} + \vec{b}$$

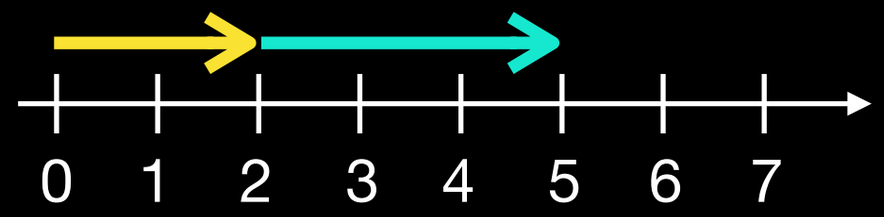
3 + 2 = 5

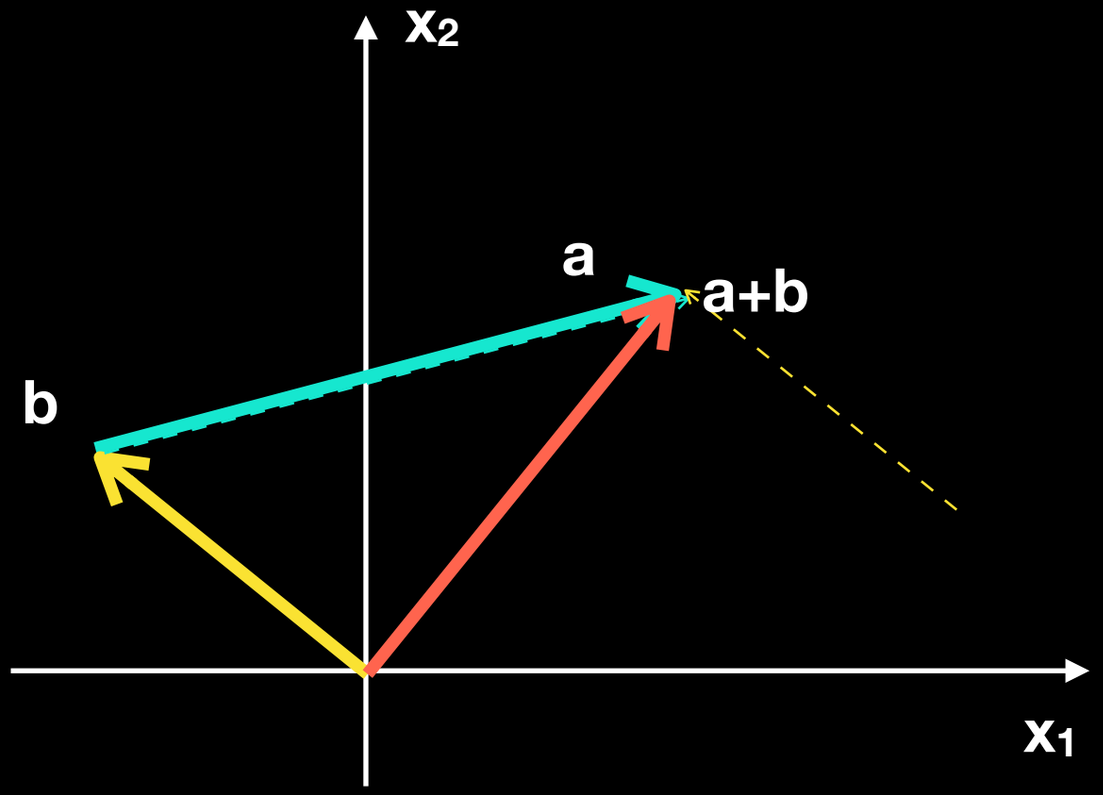




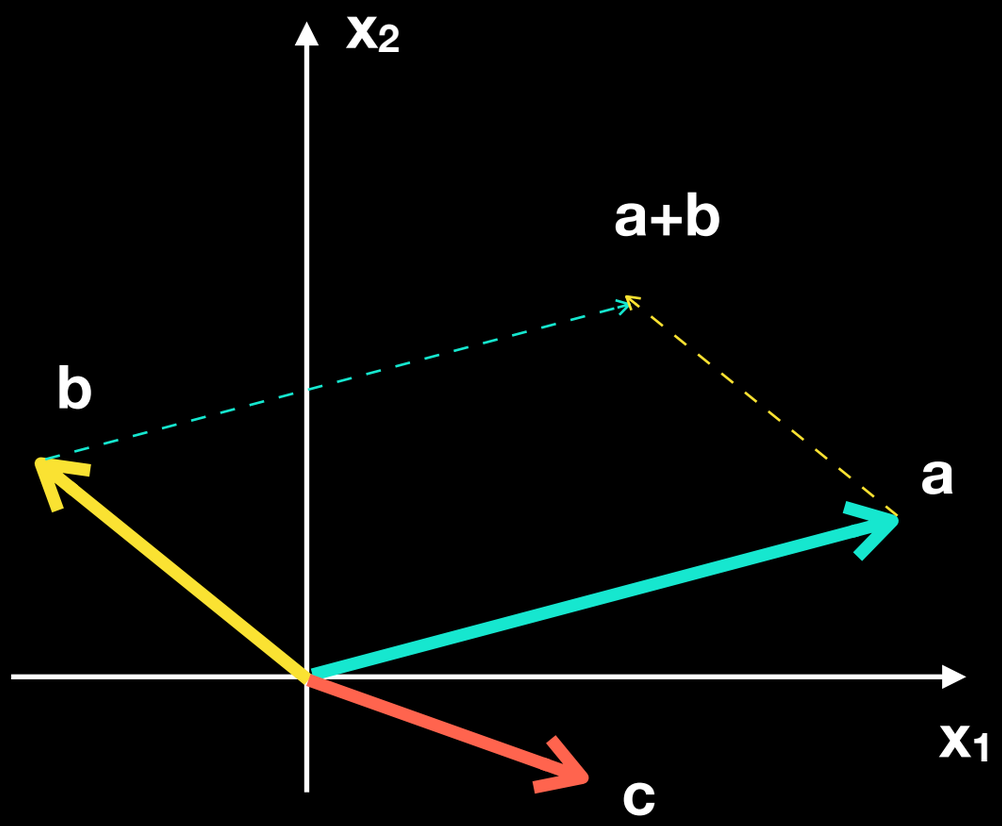
$$\vec{c} = \vec{a} + \vec{b}$$

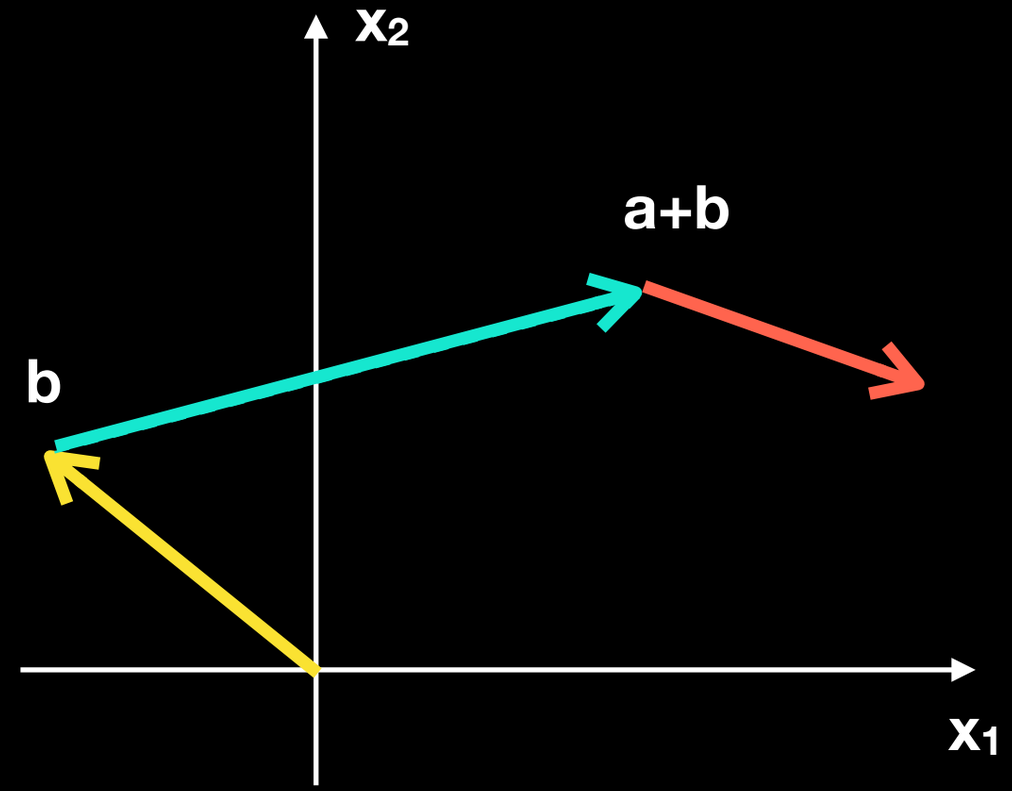
3 + 2 = 5

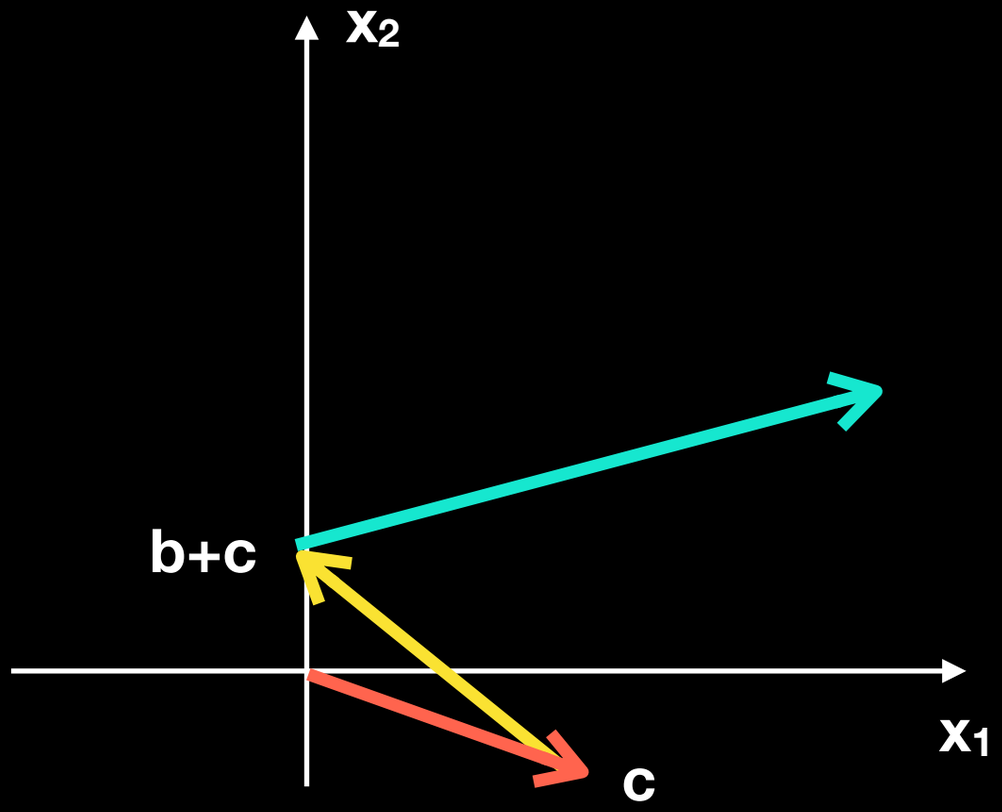


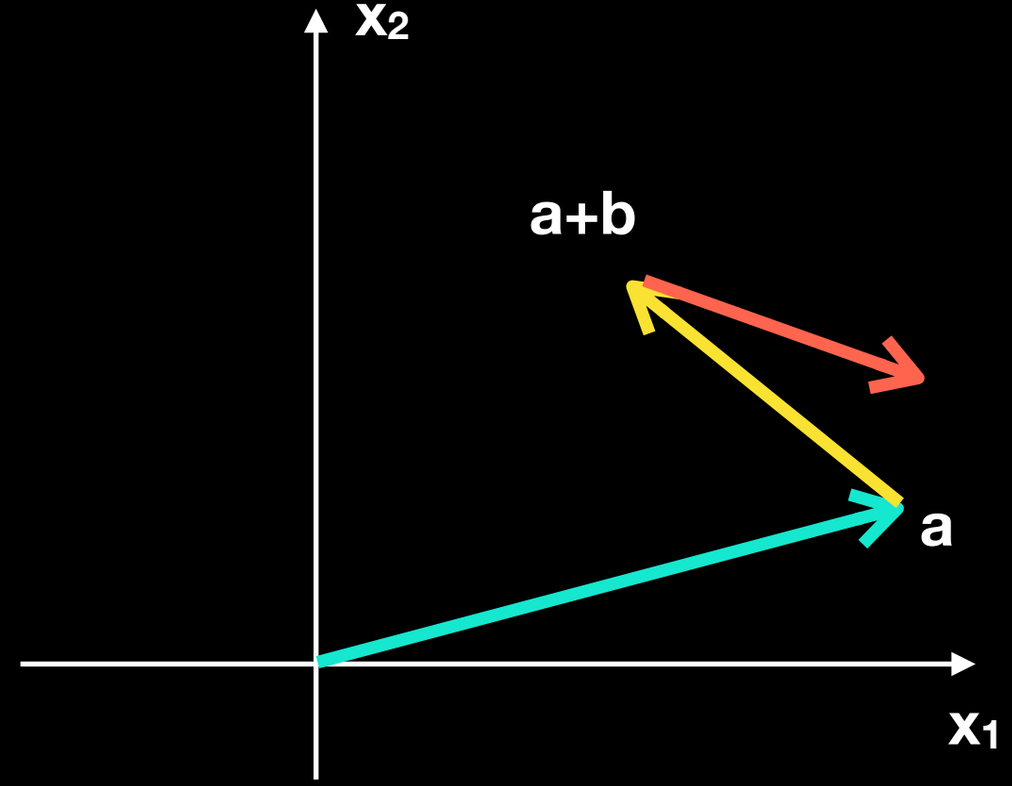


$$\vec{c} = \vec{a} + \vec{b}$$


x2
a+b
b
a
x1
c


x2
a+b
b
x1

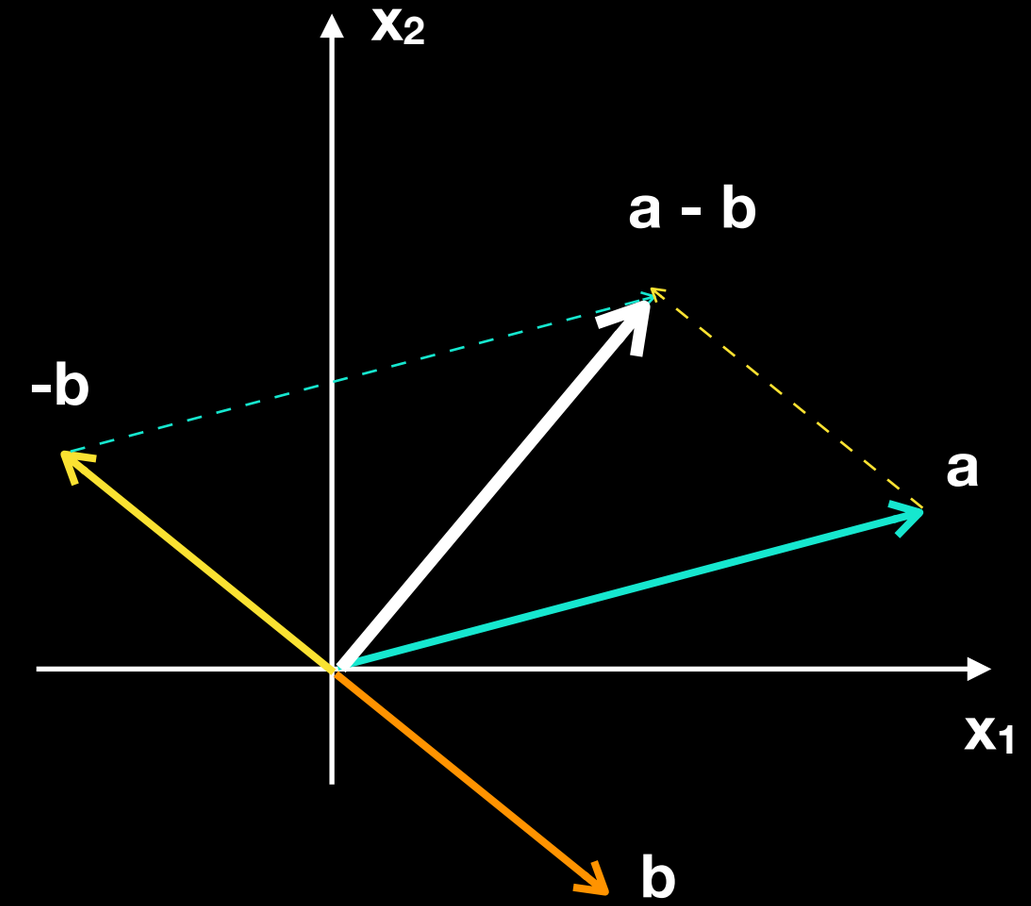

x2
b+c
x1
c


x2
a+b
a
x1

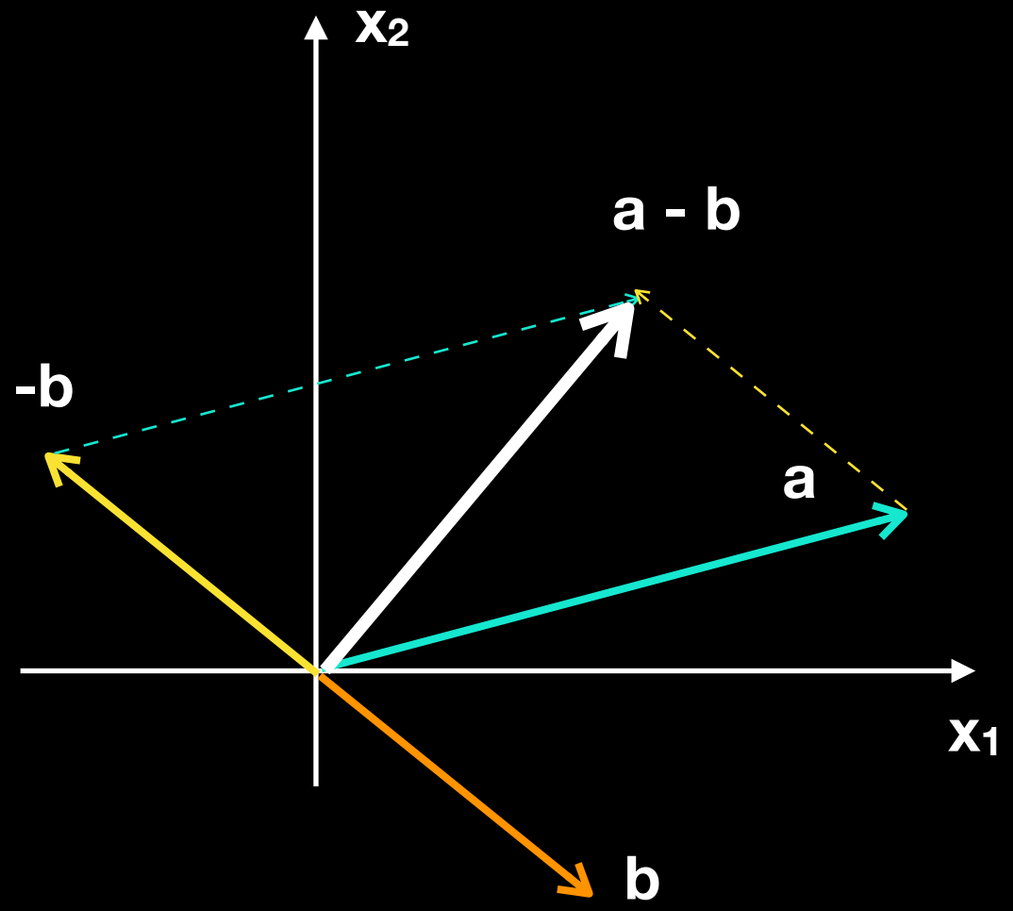
Vector Subtraction

$$\vec{c} = \vec{a} - \vec{b}$$

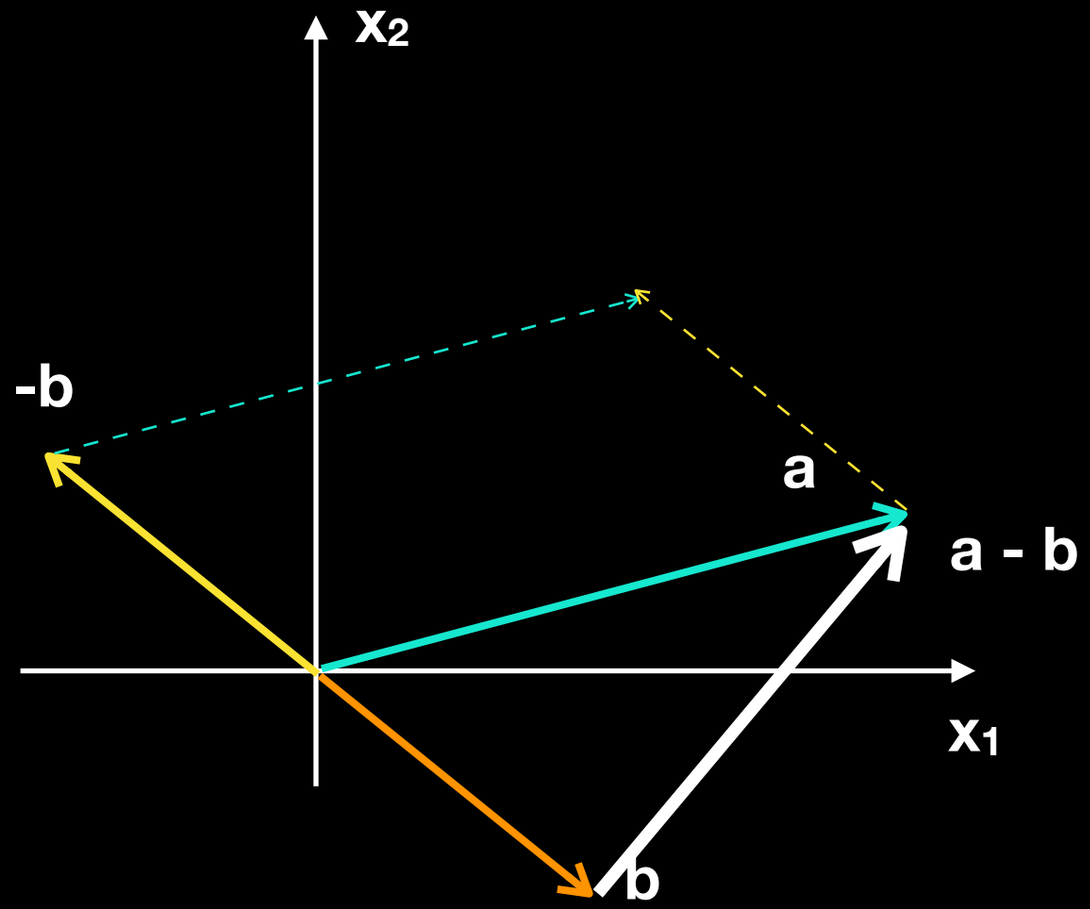
$$\vec{c} = \vec{a} + (-1)\vec{b}$$



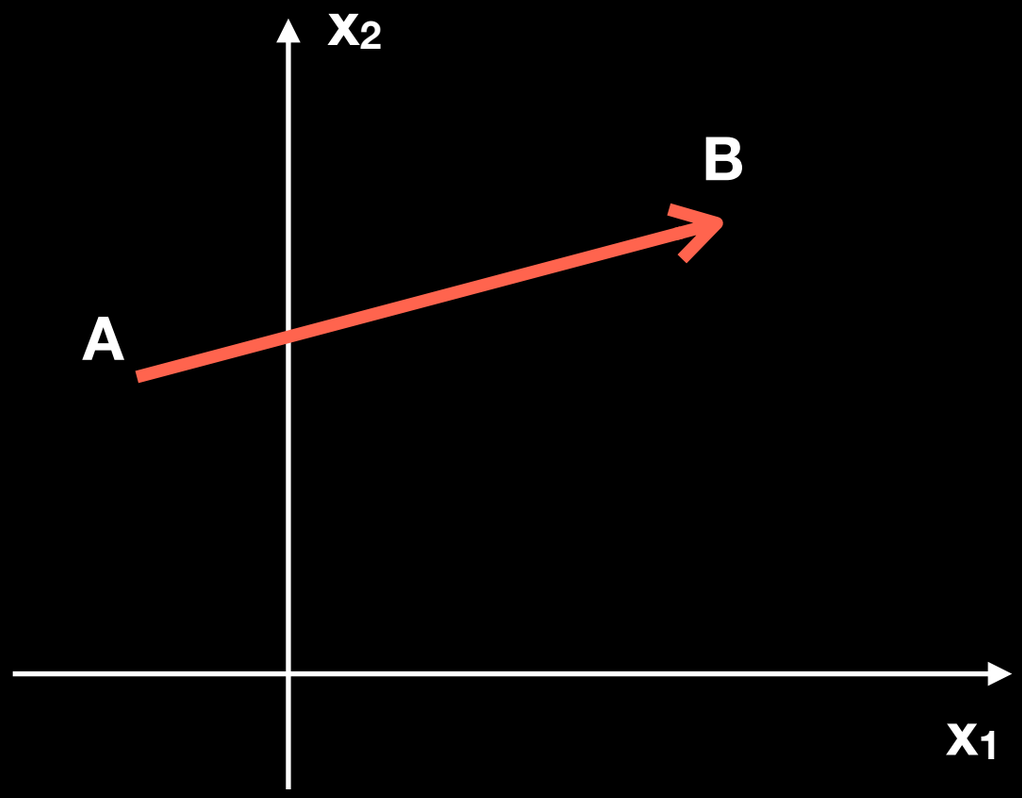
Vector Subtraction



Vector Subtraction

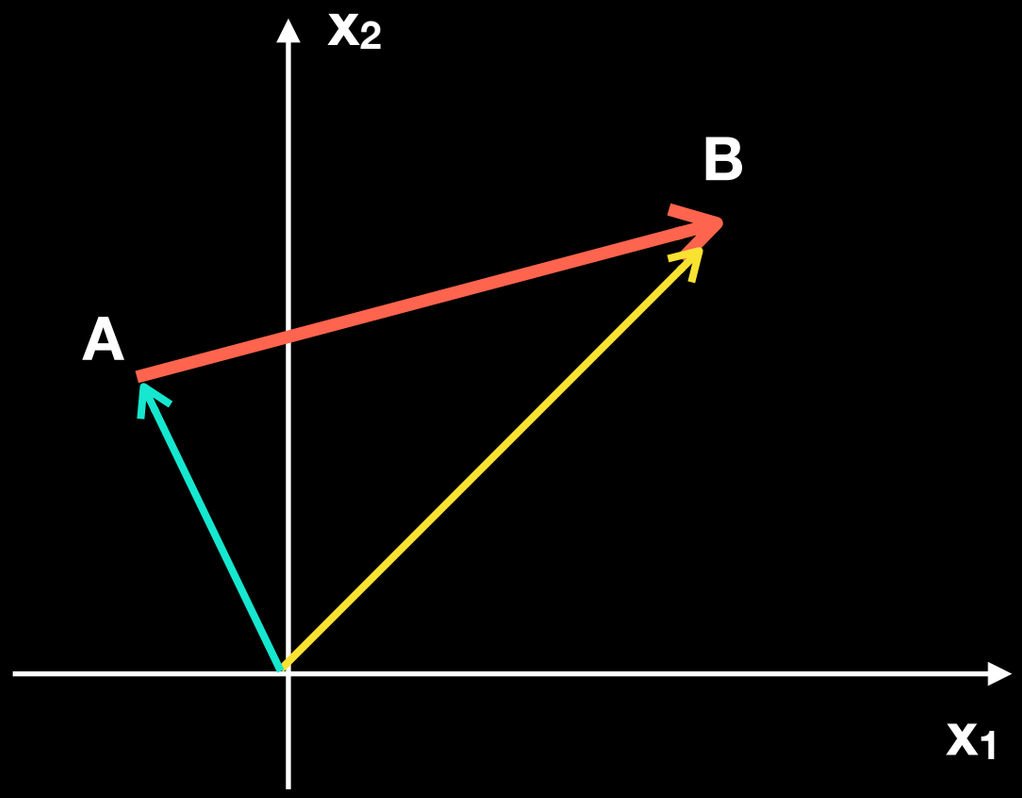


Is it a vector?



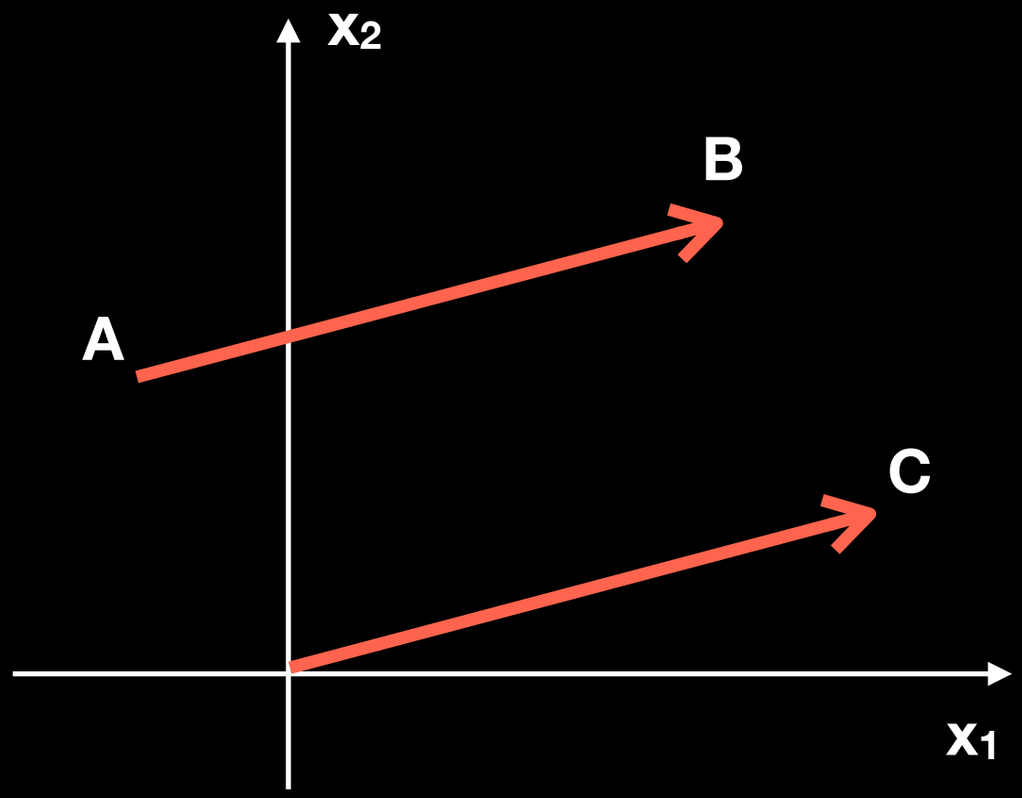
$$\overrightarrow{AB} = \overrightarrow{B} - \overrightarrow{A}$$

Is it a vector?



$$\overrightarrow{AB} = \overrightarrow{B} - \overrightarrow{A}$$

Is it a vector?



$$\overrightarrow{AB} = \overrightarrow{B} - \overrightarrow{A} = \overrightarrow{C}$$