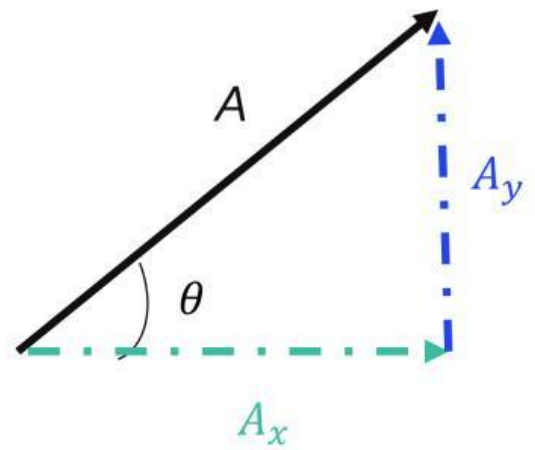


$$\cos \theta = \frac{\text{adjacent side}}{\text{hypotenuse}} = \boxed{\phantom{000}}$$

$$\sin \theta = \frac{\text{opposite side}}{\text{hypotenuse}} = \boxed{\phantom{000}}$$

$$\tan \theta = \frac{\text{opposite side}}{\text{adjacent side}} = \boxed{\phantom{000}}$$



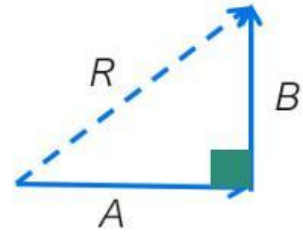
$$\frac{A_y}{A_x}$$

$$\frac{A_x}{A}$$

$$\frac{A_y}{A}$$

## Match the rule

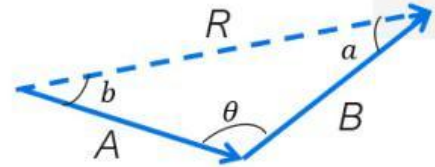
### 1 Vectors with 90 angle



### 2 Vectors with angle other than 90

Law of sines

Law of cosines



$$\frac{R}{\sin \theta} = \frac{A}{\sin a} = \frac{B}{\sin b}$$

$$R^2 = A^2 + B^2$$

$$R^2 = A^2 + B^2 - 2AB \cos \theta$$