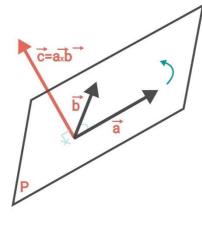
Given two vectors in 3 dimensions, that is, with three components, we can define a new operation: the vector product. The vector product between two vectors $a \rightarrow and b \rightarrow is$ another vector $c \rightarrow .$

We define the vector product by: $c \rightarrow = a \rightarrow \times b \rightarrow$. Also, it is possible to denote the vector product using the symbol \wedge . So that $c \rightarrow = a \rightarrow \wedge b \rightarrow$.

The resultant vector $c \rightarrow$ to the vector product between two vectors $b \rightarrow$ has the following properties:

- The angle is perpendicular to the plane formed by two vectors a→ and b→.
 The direction of the vector c→ is given by
- applying the "rule of the corkscrew" or the "rule of the right hand":



or a screw "towards the right" (clockwise,) the corkscrew or the screw "goes into" the bottle. Also, it is possible to use the corkscrew or a screw in another sense: when one screws a corkscrew "towards the left" (counterclockwise), the corkscrew or the screw "comes out" of the bottle).

It is the direction of rotation a corkscrew would move when opening a bottle. With a corkscrew,