

# Products

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In vector mathematics, there're two main types of products:

1. **Dot** : and be symbolic like this :  $\mathbf{a} \cdot \mathbf{b}$
2. **Cross** : and be symbolic like this :  $\mathbf{a} \times \mathbf{b}$

**Dot** : Symbolically written as  $\mathbf{a} \cdot \mathbf{b}$  The result is a scalar (number).

**Cross** : Symbolically written as  $\mathbf{a} \times \mathbf{b}$  Result is vector , In Cross Product we have using i,j,k matrix to solve problem and find the result.

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