Vector Product of Parallel Vectors

If a and b are parallel then $\theta = 0$

∴ a×b = a b sinθè. di |

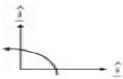
N.B. This is still a vector result $\mathbf{0} = 0\hat{\mathbf{i}} + 0\hat{\mathbf{j}} + 0\hat{\mathbf{k}}$

N.B. $\mathbf{a} \times \mathbf{b} = \mathbf{0}$ if \mathbf{a} and \mathbf{b} are anti-parallel (opposite directions). Note also that $\hat{\mathbf{i}} \times \hat{\mathbf{i}} = \hat{\mathbf{j}} \times \hat{\mathbf{j}} = \hat{\mathbf{k}} \times \hat{\mathbf{k}} = \mathbf{0}$

Vector Product of i and j

$$|1\times|$$
 $|1\times|$ $|1\times|$ $|1\times|$ $|1\times|$ $|1\times|$

The result is a unit vector and it has a direction perpendicular to land 1



The direction will be defined by the right-hand screw rule (i.e. out of the paper vertically) and is thus the direction of \hat{k} . Hence $\hat{i} \times \hat{j} = \hat{k}$

Similarly $j \times k = i$ $k \times i = j$

Vector of a dimensions

The vectors considered so far have clear physical meaning in 2 or 3 dimensions.

It is sometimes necessary to generalise the ideas to higher dimensions but no convenient geometrical interpretation is possible then.

For example, we can define five dimensional vectors

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Solo, Ashu M. G.

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