

### Vector Product of Parallel Vectors

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

$$\therefore \mathbf{a} \times \mathbf{b} = \frac{a}{|\mathbf{a}|} \frac{b}{|\mathbf{b}|} \sin \theta \hat{\mathbf{k}}$$

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 $\hat{\mathbf{i}}$ and $\hat{\mathbf{j}}$

$$|\hat{\mathbf{i}} \times \hat{\mathbf{j}}| = \frac{1}{|\hat{\mathbf{i}}|} \frac{1}{|\hat{\mathbf{j}}|} \sin 90^\circ = 1$$

The result is a unit vector and it has a direction perpendicular to  $\hat{\mathbf{i}}$  and  $\hat{\mathbf{j}}$



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

Similarly  $\hat{\mathbf{j}} \times \hat{\mathbf{k}} = \hat{\mathbf{i}}$   $\hat{\mathbf{k}} \times \hat{\mathbf{i}} = \hat{\mathbf{j}}$

### Vector of $n$ 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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