Cross Product Review

Cross Product different from Dot Product

$A \bullet B$ is a scalar; $A \times B$ is a vector

$A \bullet B$ proportional to the component of B parallel to A

$A \times B$ proportional to the component of B perpendicular to A

Definition of $A \times B$

Magnitude: $AB \sin\theta$

Direction: perpendicular to plane defined by A and B with sense given by right-hand-rule

Right-hand rule