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2. \vec{A} , \vec{B} and \vec{C} are three non-collinear, non-co-planar vectors. What can you say about direction of $\vec{A} \times (\vec{B} \times \vec{C})$?

Sol. The direction of the vector $(\vec{B} \times \vec{C})$ will be perpendicular to the plane containing the vectors \vec{B} and \vec{C} by right-hand thumb or right-hand grip rule (RHGR).
The direction of the vector $\vec{A} \times (\vec{B} \times \vec{C})$ will be perpendicular to \vec{A} and in a plane containing \vec{B} and \vec{C} by right-hand grip rule.