Cross Product

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$$\vec{u} = 5i + 6j + 2k$$

$$\vec{v} = i + j + k$$

$$\vec{u} \times \vec{v} = ?$$

$$= \begin{vmatrix} i & j & k \\ 5 & 6 & 2 \\ 1 & 1 & 1 \end{vmatrix}$$

$$\vec{u} \times \vec{v} = (6 - 2)i - (5 - 2)j + (5 - 6)k$$

$$\vec{u} \times \vec{v} = 4i - 3j - k$$