

Example 2a: Find moment of $F$ about point $O \vec{M}_{0}$


$$
\begin{aligned}
& =\frac{(5-1) \hat{\imath}+(0-4) \hat{\imath}+(0-2) \hat{k}}{\sqrt{4^{2}+4^{2}+2^{2}}} \\
\vec{u}_{B C} & =\frac{2}{3} \hat{\imath}-\frac{2}{3} \hat{\jmath}-\frac{1}{3} \hat{k}
\end{aligned}
$$

## Example 2a': Find moment of $F$ about point $O$



## EXAMPLE \# 3



Given: $\mathrm{a}=3 \mathrm{in}, \mathrm{b}=6$ in and $\mathrm{c}=2 \mathrm{in}$.
Find: Moment of $F$ about point $O$.
Plan:

1) Find $r_{O A}$.
2) Determine $M_{O}=r_{O A} \times F$.
