## QUESTION

Calculate a unit vector which is parallel to $2 \mathbf{i}-3 \mathbf{j}+6 \mathbf{k}$.
ANSWER
Unit vector $= \pm \frac{2 \mathbf{i}-3 \mathbf{j}+6 \mathbf{k}}{\sqrt{2^{2}+(-3)^{2}+6^{2}}}= \pm \frac{1}{7}(2 \mathbf{i}-3 \mathbf{j}+6 \mathbf{k})$

