

Answer on Question #56015 – Math – Vector Calculus

Let $\vec{a} = 5i + 2j - 3k$, then $|\vec{a}| = \dots$

Solution

$$|\vec{a}| = |5i + 2j - 3k| = \sqrt{5^2 + 2^2 + (-3)^2} = \sqrt{25 + 4 + 9} = \sqrt{38}.$$

Answer: $\sqrt{38}$.