

Answer on question #53639, Physics / Mechanics — Kinematics — Dynamics

Question $A = 3i + 4j$ and $B = i - j$, are two vectors in x, y plane. Find the magnitude of the sum of these two vectors

Solution Let us find vector $A+B$

$$3i + 4j + i - j = 4i + 3j$$

Now we can find magnitude of $A+B$

$$|A + B| = \sqrt{4^2 + 3^2} = \sqrt{25} = 5$$

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