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third vector is placed at the tail of the second vector and so forth until all vectors have been

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web if the vectors are in the component form then the vector sum formula is $a_1 \hat{i} + b_1 \hat{j} + a_2 \hat{i} + b_2 \hat{j} + a_3 \hat{i} + b_3 \hat{j}$ if the two vectors are arranged by attaching the head of one vector to the tail of the other then their sum is the vector that joins the

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called resultant vector while we can simply add any two scalar quantities but while adding the two vectors we need to be careful about their direction which are given by their unit vectors