

We can also add or subtract vectors by adding or subtracting their components.

e.g. If 
$$\underline{u} = \begin{pmatrix} 3 \\ -2 \end{pmatrix}$$
 and  $\underline{v} = \begin{pmatrix} 4 \\ 5 \end{pmatrix}$  then  $\underline{u} + \underline{v} = \begin{pmatrix} 3 \\ -2 \end{pmatrix} + \begin{pmatrix} 4 \\ 5 \end{pmatrix} = \begin{pmatrix} 7 \\ 3 \end{pmatrix}$   
If  $\underline{a} = \begin{pmatrix} 4 \\ -1 \\ 0 \end{pmatrix}$  and  $\underline{b} = \begin{pmatrix} -3 \\ 6 \\ 2 \end{pmatrix}$  then  $\underline{a} - \underline{b} = \begin{pmatrix} 4 \\ -1 \\ 0 \end{pmatrix} - \begin{pmatrix} -3 \\ 6 \\ 2 \end{pmatrix} = \begin{pmatrix} 7 \\ -7 \\ -2 \end{pmatrix}$ 

The resultant vector is the sum of the vectors.



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Select SHAPE from the menu. Select VECTORS. Try on EASY, MEDIUM and HARD levels.