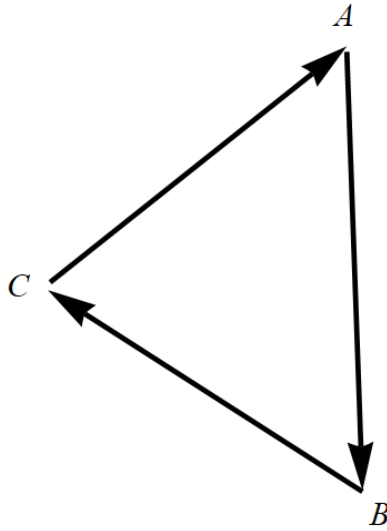


**Exercise 23**

Suppose  $A$ ,  $B$ , and  $C$  are vertices of a triangle. Find  $\vec{AB} + \vec{BC} + \vec{CA}$ .

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**Solution**

$\vec{AB} + \vec{BC} + \vec{CA} = \mathbf{0}$  because the vectors are all connected from head to tail.