Questions are taken from the course book '*Physics with modern physics', Richard Wolfson & J. M. Pasachoff,*
Questions taken from course book pp 60 - 63

Three vectors $\vec{\boldsymbol{A}}$, $\vec{\boldsymbol{B}}$ *and* $\vec{\boldsymbol{C}}$ *have the same length L and form an equilateral triangle, shown here as fig. 1. Find the magnitude and direction of the vectors* $(a)\ \vec{\boldsymbol{A}} + \vec{\boldsymbol{B}}$, $(b)\ \vec{\boldsymbol{A}} - \vec{\boldsymbol{B}}$, $(c)\ \vec{\boldsymbol{A}} + \vec{\boldsymbol{B}} + \vec{\boldsymbol{C}}$, $(d)\ \vec{\boldsymbol{A}} + \vec{\boldsymbol{B}} - \vec{\boldsymbol{C}}$.

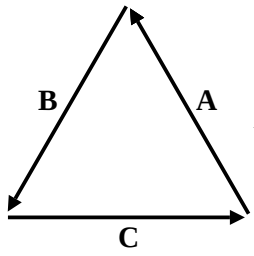

Figure 1