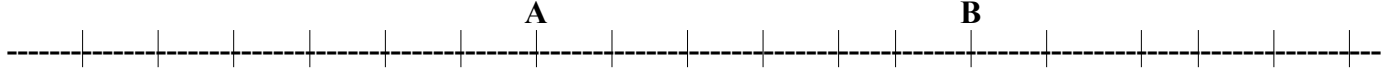
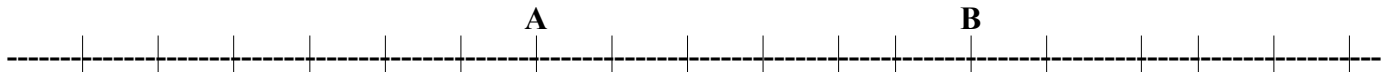


Problem I : on the line (AB) , such that $AB = 6$ units, find the number x such that $\overrightarrow{AM} = x\overrightarrow{AB}$ and place the point M .

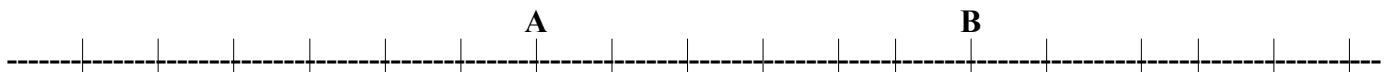
(1) $\overrightarrow{MA} + \overrightarrow{MB} = \vec{0}$



(2) $\overrightarrow{MA} + 2\overrightarrow{MB} = \vec{0}$



(3) $2\overrightarrow{MA} + \overrightarrow{MB} = \vec{0}$



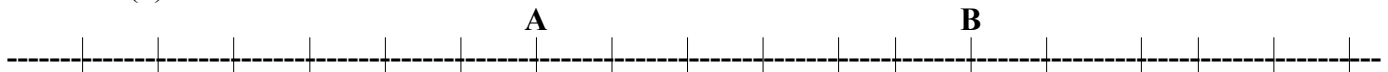
(4) $\overrightarrow{MA} + 3\overrightarrow{MB} = \vec{0}$



(5) $3\overrightarrow{MA} + \overrightarrow{MB} = \vec{0}$



(6) $\overrightarrow{MA} - \overrightarrow{MB} = \vec{0}$



(7) $2\overrightarrow{MA} - \overrightarrow{MB} = \vec{0}$



(8) $\overrightarrow{MA} - 3\overrightarrow{MB} = \vec{0}$



(9) $3\overrightarrow{MA} + 2\overrightarrow{MB} = \vec{0}$

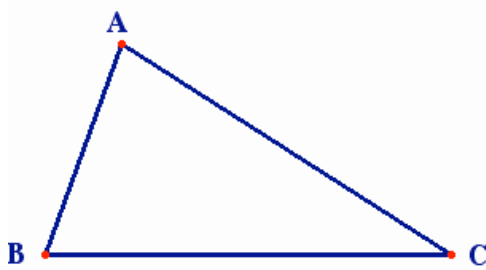


(10) $3\overrightarrow{MA} - 2\overrightarrow{MB} = \vec{0}$

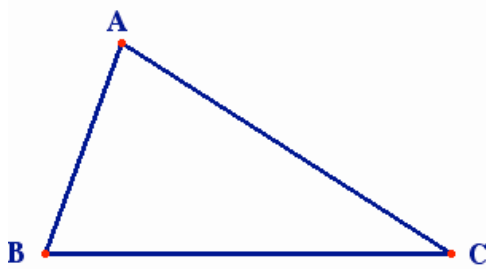


Problem II : in each triangle ABC, find the numbers x and y such that $\overrightarrow{AM} = x\overrightarrow{AB} + y\overrightarrow{AC}$ and then place the point M :

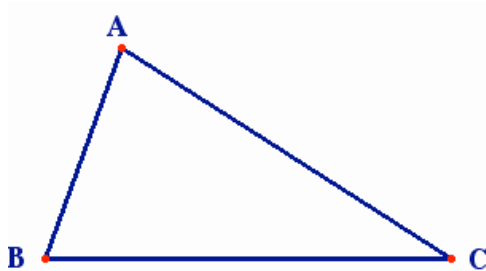
(1) $\overrightarrow{MA} + \overrightarrow{MB} + \overrightarrow{MC} = \vec{0}$



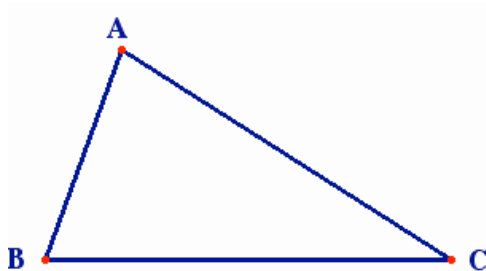
(2) $\overrightarrow{MA} + 2\overrightarrow{MB} + 3\overrightarrow{MC} = \vec{0}$



(3) $\overrightarrow{MA} - 3\overrightarrow{MB} + \overrightarrow{MC} = \vec{0}$



(4) $\overrightarrow{MA} - 2\overrightarrow{MB} - \overrightarrow{MC} = \vec{0}$



(5) $2\overrightarrow{MA} - \overrightarrow{MB} - \overrightarrow{MC} = \vec{0}$

