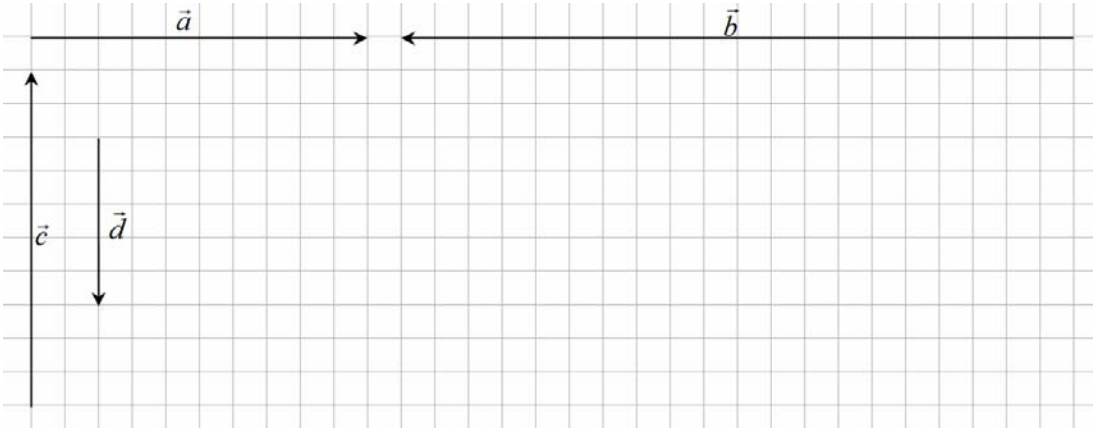
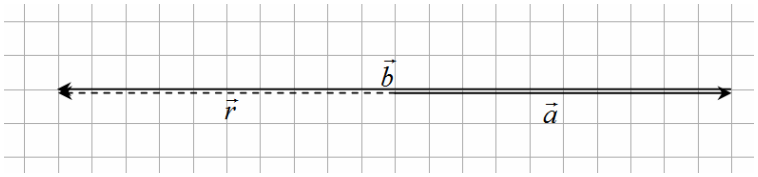
$\vec{a} = 10m[R],\ \vec{b} = 20m[L],\ \vec{c} = 10m[U],\ \vec{d} = 5m[D]$

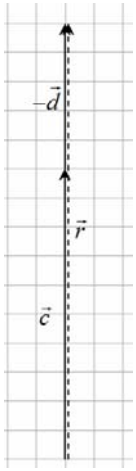


1. Draw the following vector diagrams

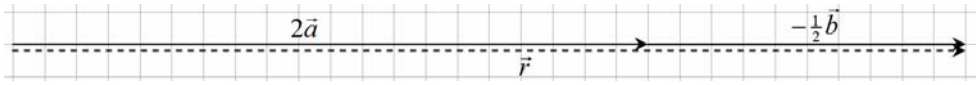
a. $\vec{a} + \vec{b}$



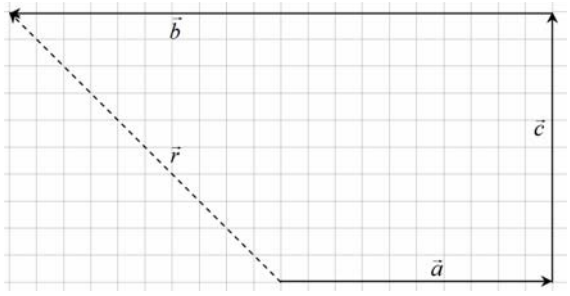
b. $\vec{c} - \vec{d}$



c. $2\vec{a} - \frac{1}{2}\vec{b}$



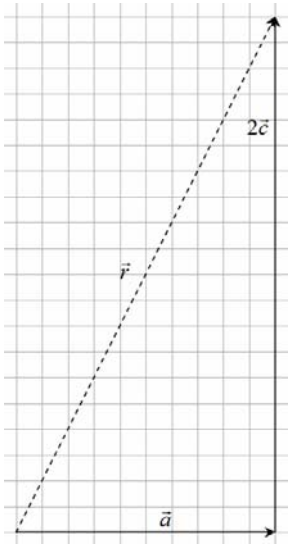
d. $\vec{a} + \vec{c} + \vec{b}$



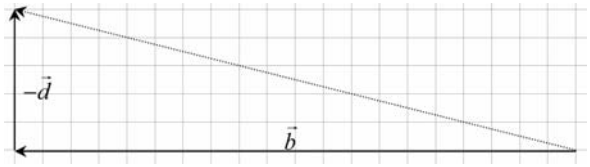
2. Solve the vector equations in 1) mathematically.

3. Draw and solve the following vector equations

a. $\vec{a} + 2\vec{c}$



b. $\vec{b} - \vec{d}$



c. $2\vec{a} - 4\vec{c} + \vec{b} - 2\vec{d}$