

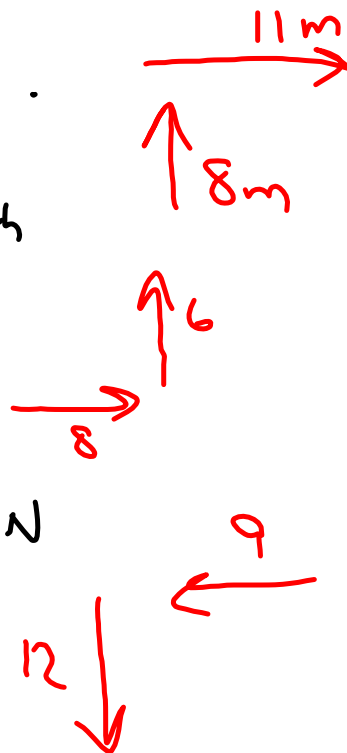
Vectors Assignment

$\vec{V}_A = 11\text{ m East}$

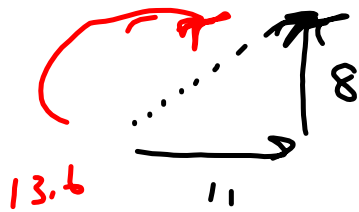
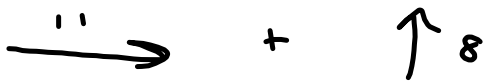
$\vec{V}_B = 8\text{ m North}$

$\vec{V}_C = 10\text{ m E } 37^\circ\text{ N}$

$\vec{V}_D = 15\text{ m W } 53^\circ\text{ N}$



a) $\vec{V}_A + \vec{V}_B$
 11 East + 8 m North



13.6 m NE

$$h^2 = a^2 + b^2$$

$$h^2 = 11^2 + 8^2$$

$h = 13.6$

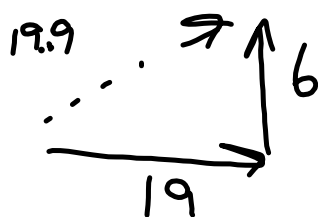
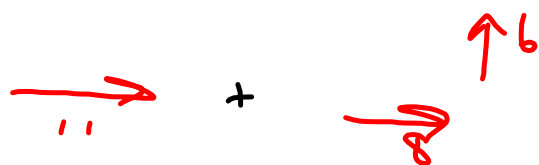
$$b) \vec{V}_B + \vec{V}_A$$

8 ↑ + →

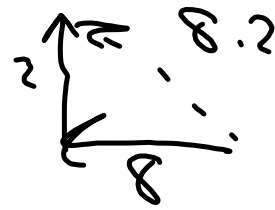
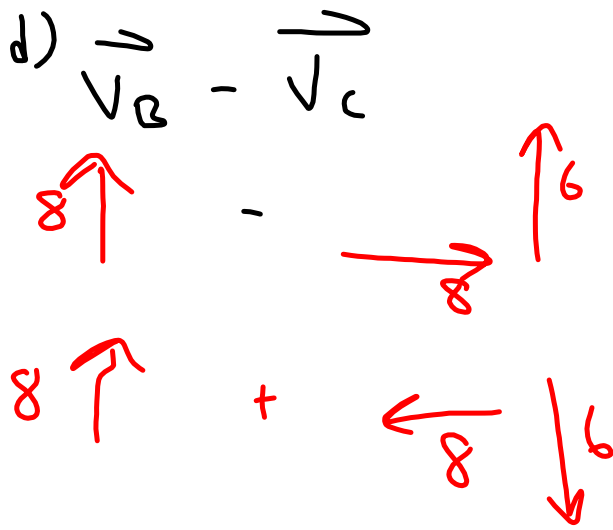


13.6 m NE

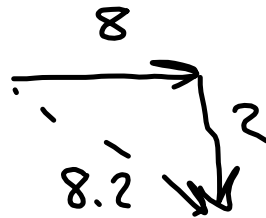
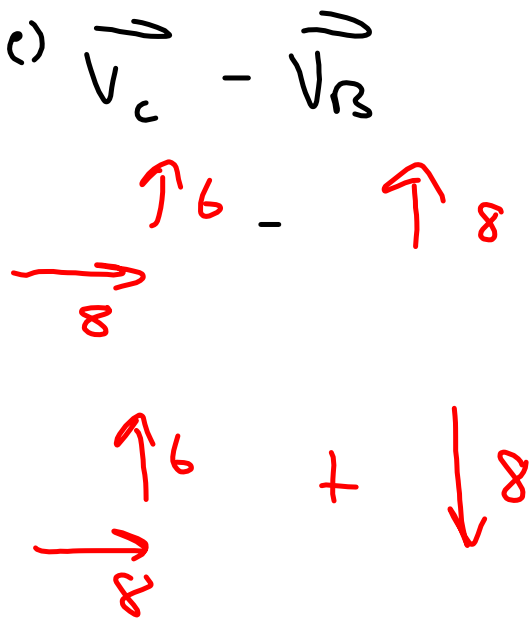
c) $\vec{V}_A + \vec{V}_C$



19.9m NE

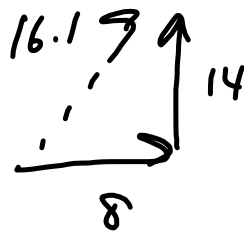


8.2 m NW

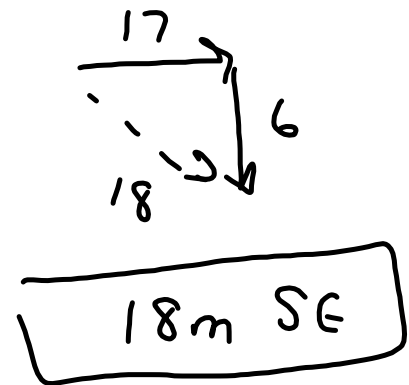
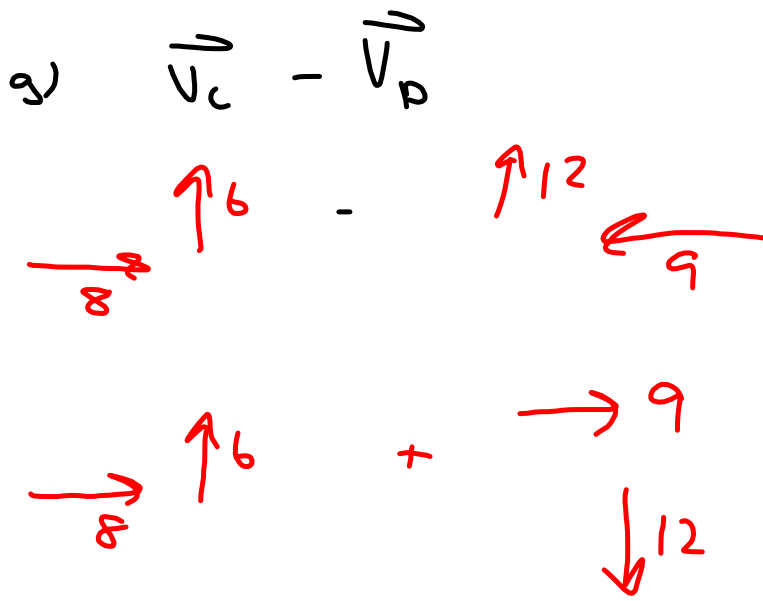


8.2 m SE

$$\begin{aligned} & \vec{V}_C + \vec{V}_B \\ & \begin{array}{c} \uparrow 6 \\ \rightarrow 8 \end{array} + \begin{array}{c} \uparrow 8 \end{array} \end{aligned}$$



16.1 m NE

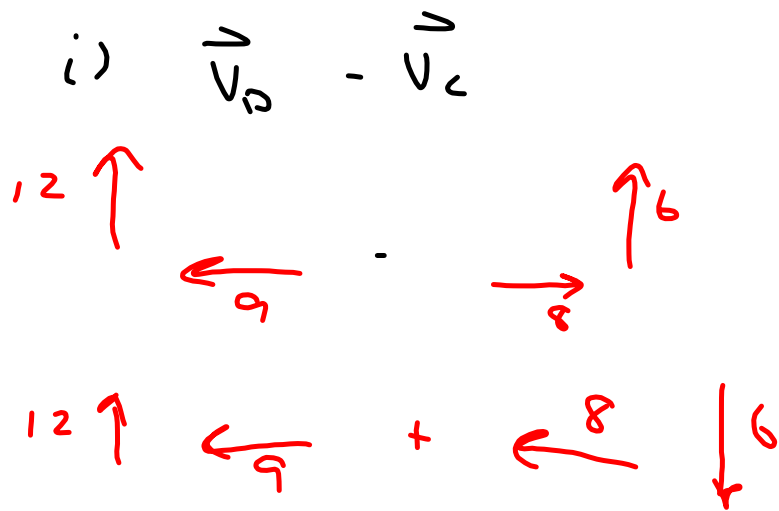


5) $\vec{v}_0 + \vec{v}_c$

12 ↑ + 6 ↑
 9 ← + 3 ←



18 m NW



18 m NW

j) $\vec{v}_B - \vec{v}_A$
 8 m north - 11 east
 $\uparrow 8$ - $\rightarrow 11$
 $\uparrow 8$ + $\leftarrow 11$

