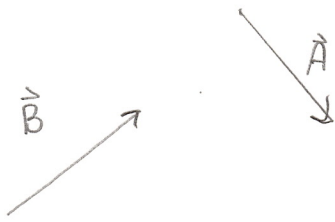
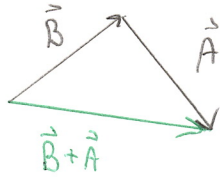


P3.11



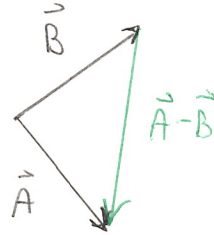
a) $\vec{A} + \vec{B}$



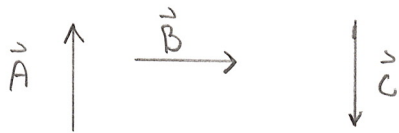
b) $\vec{A} - \vec{B}$

"INITIAL" (pointing to the tail of A)

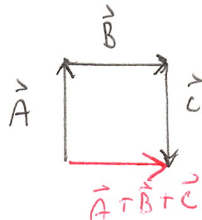
"FINAL" (pointing to the tip of B)



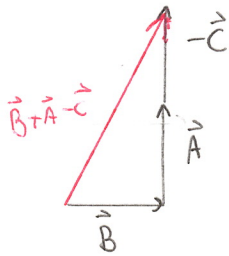
CQ 3.18



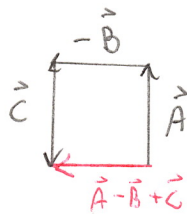
a) $\vec{A} + \vec{B} + \vec{C}$



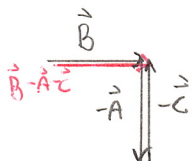
b) $\vec{B} + \vec{A} - \vec{C}$



c) $\vec{A} - \vec{B} + \vec{C}$



d) $\vec{B} - \vec{A} - \vec{C}$



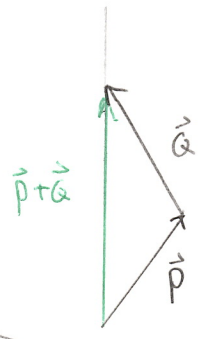
LARGEST MAGNITUDE \Rightarrow LONGEST "LENGTH"

(b)

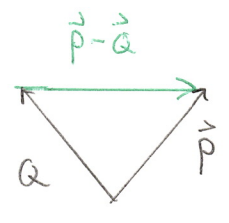
Q 3.19



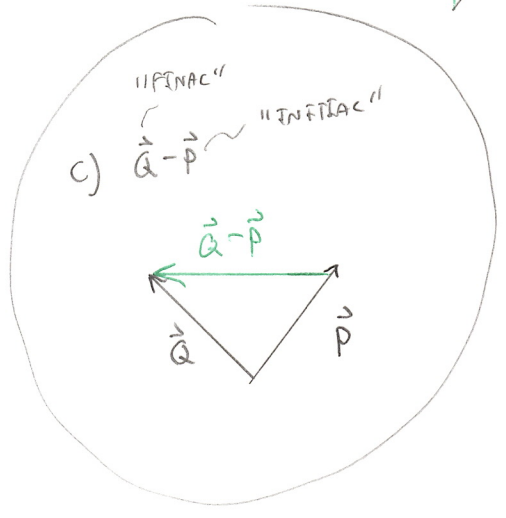
a) $\vec{P} + \vec{Q}$



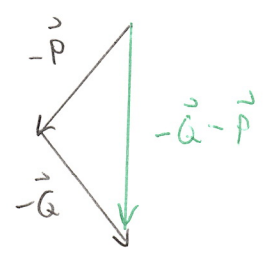
b) $\vec{P} - \vec{Q}$
 "INITIAL" "FINAL"



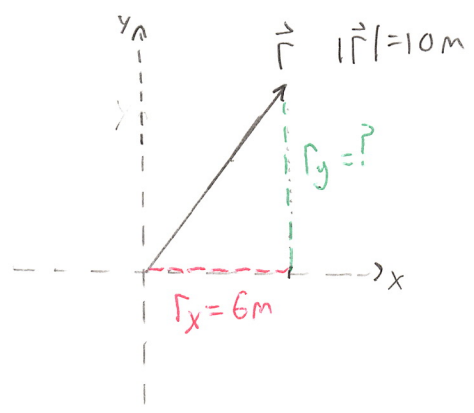
c) $\vec{Q} - \vec{P}$
 "INITIAL" "FINAL"



d) $-\vec{Q} - \vec{P}$



P 3.5



$$r_x^2 + r_y^2 = |\vec{r}|^2$$

$$r_y = \sqrt{|\vec{r}|^2 - r_x^2}$$

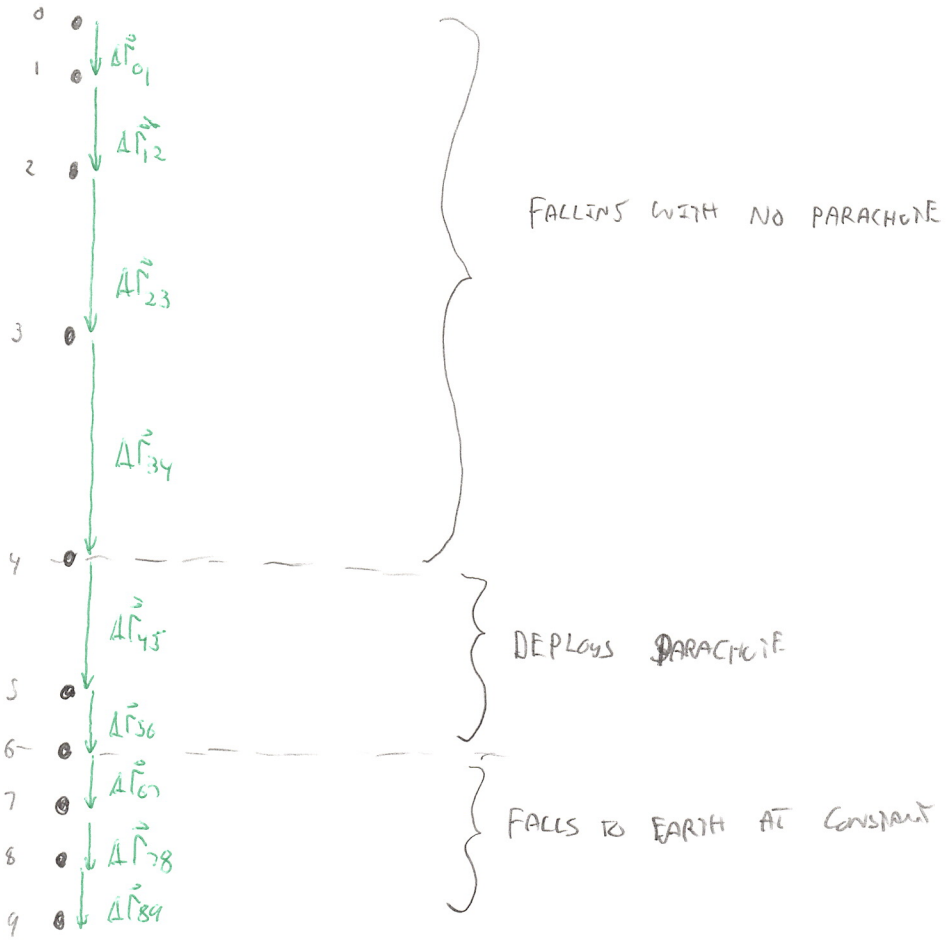
$$r_y = \sqrt{10^2 - 6^2}$$

$$r_y = 8m$$

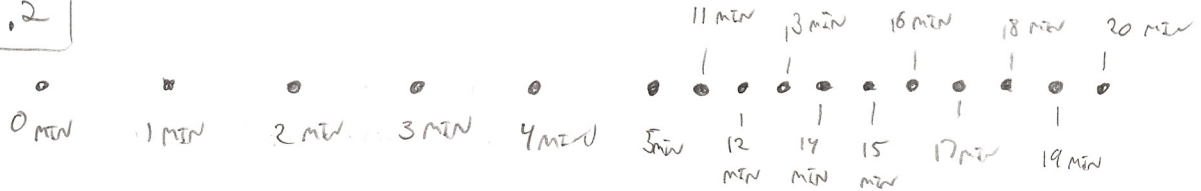
$$\vec{r} = \langle 6, 8 \rangle m$$

X-component y-component

CG 1.13



P 1.2



P 1.3

