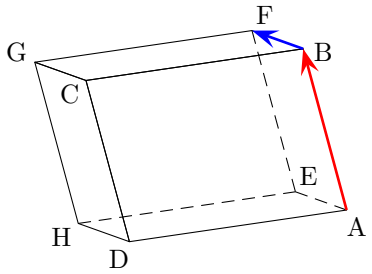
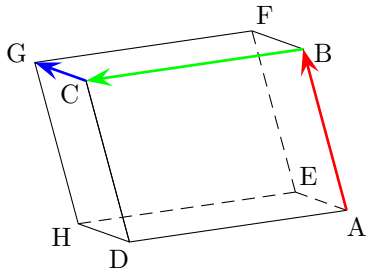
8.14

1)



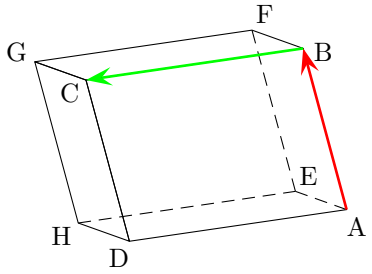
$$\begin{aligned}\overrightarrow{AF} &= \overrightarrow{AB} + \overrightarrow{BF} \\ &= \overrightarrow{AB} + \overrightarrow{AE} \\ &= \vec{e_1} + \vec{e_3}\end{aligned}$$

2)



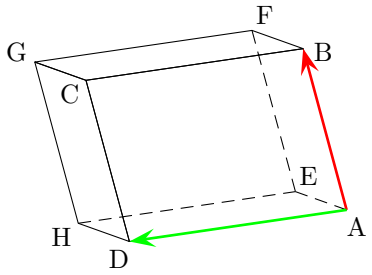
$$\begin{aligned}\overrightarrow{AG} &= \overrightarrow{AB} + \overrightarrow{BC} + \overrightarrow{CG} \\ &= \overrightarrow{AB} + \overrightarrow{AD} + \overrightarrow{AE} \\ &= \vec{e_1} + \vec{e_2} + \vec{e_3}\end{aligned}$$

3)



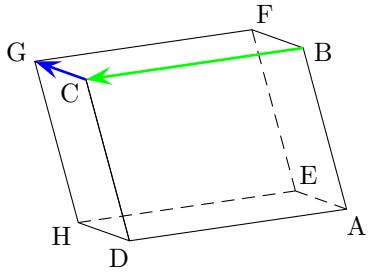
$$\begin{aligned}\overrightarrow{AC} &= \overrightarrow{AB} + \overrightarrow{BC} \\ &= \overrightarrow{AB} + \overrightarrow{AD} \\ &= \vec{e_1} + \vec{e_2}\end{aligned}$$

4)



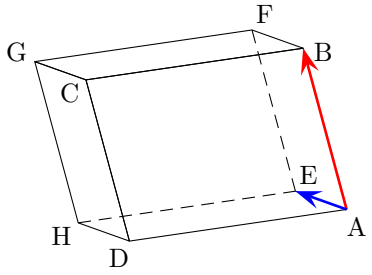
$$\begin{aligned}\overrightarrow{BD} &= -\overrightarrow{AB} + \overrightarrow{AD} \\ &= -\vec{e_1} + \vec{e_2}\end{aligned}$$

5)



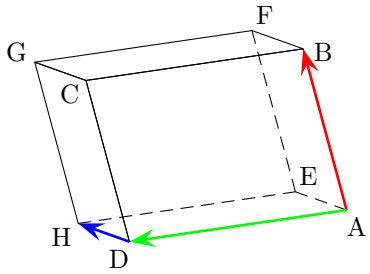
$$\begin{aligned}\overrightarrow{BG} &= \overrightarrow{BC} + \overrightarrow{CG} \\ &= \overrightarrow{AD} + \overrightarrow{AE} \\ &= \vec{e_2} + \vec{e_3}\end{aligned}$$

6)



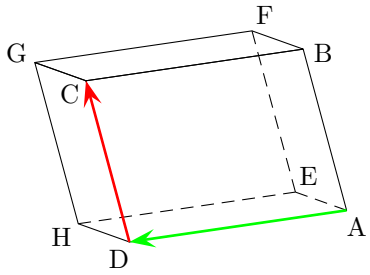
$$\begin{aligned}\overrightarrow{BE} &= -\overrightarrow{AB} + \overrightarrow{AE} \\ &= -\vec{e_1} + \vec{e_3}\end{aligned}$$

7)



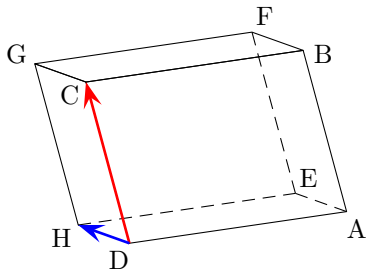
$$\begin{aligned}\overrightarrow{BH} &= -\overrightarrow{AB} + \overrightarrow{AD} + \overrightarrow{DH} \\ &= -\overrightarrow{AB} + \overrightarrow{AD} + \overrightarrow{AE} \\ &= -\vec{e_1} + \vec{e_2} + \vec{e_3}\end{aligned}$$

8)



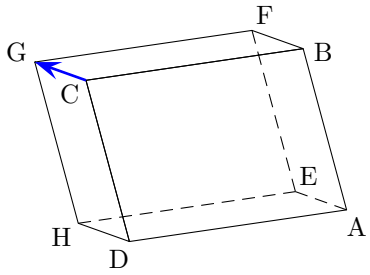
$$\begin{aligned}\overrightarrow{CA} &= -\overrightarrow{DC} - \overrightarrow{AD} \\ &= -\overrightarrow{AB} - \overrightarrow{AD} \\ &= -\vec{e_1} - \vec{e_2}\end{aligned}$$

9)



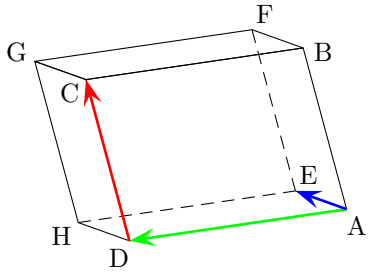
$$\begin{aligned}\overrightarrow{CH} &= -\overrightarrow{DC} + \overrightarrow{DH} \\ &= -\overrightarrow{AB} + \overrightarrow{AE} \\ &= -\vec{e_1} + \vec{e_3}\end{aligned}$$

10)



$$\begin{aligned}\overrightarrow{CG} &= \overrightarrow{AE} \\ &= \vec{e_3}\end{aligned}$$

11)



$$\begin{aligned}\overrightarrow{CE} &= -\overrightarrow{DC} - \overrightarrow{AD} + \overrightarrow{AE} \\ &= -\overrightarrow{AB} - \overrightarrow{AD} + \overrightarrow{AE} \\ &= -\vec{e_1} - \vec{e_2} + \vec{e_3}\end{aligned}$$