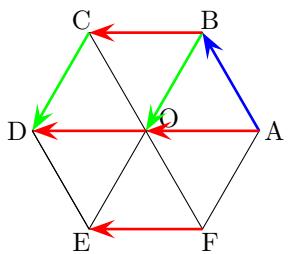


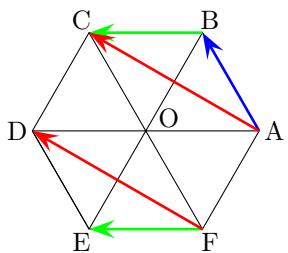
8.4

1)



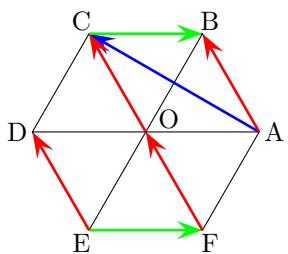
$$\begin{aligned}
 \vec{a} &= \overrightarrow{AB} + \overrightarrow{CD} \\
 &= \overrightarrow{AB} + \overrightarrow{BO} \\
 &= \overrightarrow{AO} \\
 &= \overrightarrow{OD} = \overrightarrow{BC} = \overrightarrow{FE}
 \end{aligned}$$

2)



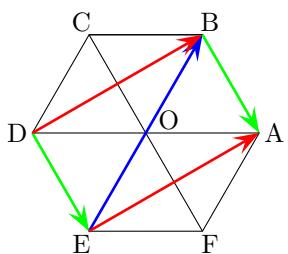
$$\begin{aligned}
 \vec{b} &= \overrightarrow{AB} + \overrightarrow{FE} \\
 &= \overrightarrow{AB} + \overrightarrow{BC} \\
 &= \overrightarrow{AC} \\
 &= \overrightarrow{FD}
 \end{aligned}$$

3)



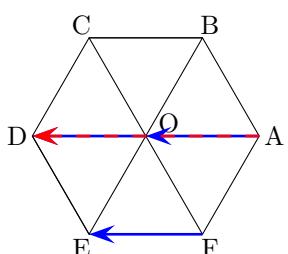
$$\begin{aligned}
 \vec{c} &= \overrightarrow{AC} - \overrightarrow{FE} \\
 &= \overrightarrow{AC} + \overrightarrow{EF} \\
 &= \overrightarrow{AC} + \overrightarrow{CB} \\
 &= \overrightarrow{AB} \\
 &= \overrightarrow{FO} = \overrightarrow{OC} = \overrightarrow{ED}
 \end{aligned}$$

4)



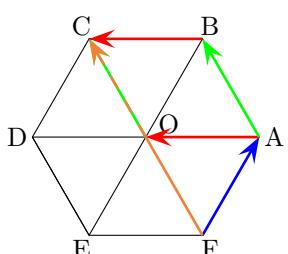
$$\begin{aligned}
 \vec{d} &= \overrightarrow{EB} + \overrightarrow{DE} \\
 &= \overrightarrow{EB} + \overrightarrow{BA} \\
 &= \overrightarrow{EA} \\
 &= \overrightarrow{DB}
 \end{aligned}$$

5)



$$\begin{aligned}
 \vec{e} &= \overrightarrow{FE} + \overrightarrow{FE} \\
 &= \overrightarrow{AO} + \overrightarrow{OD} \\
 &= \overrightarrow{AD}
 \end{aligned}$$

6)



$$\begin{aligned}
 \vec{f} &= \overrightarrow{FA} + \overrightarrow{BC} + \overrightarrow{AB} + \overrightarrow{EE} \\
 &= \overrightarrow{FA} + \overrightarrow{AO} + \overrightarrow{OC} + \vec{0} \\
 &= \overrightarrow{FC}
 \end{aligned}$$