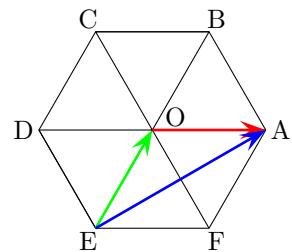
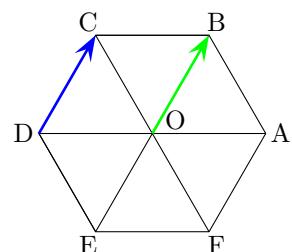


7.3

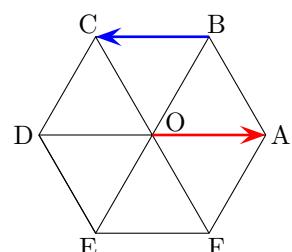
$$\begin{aligned}
 1) \quad (a) \quad \overrightarrow{EA} &= \overrightarrow{EO} + \overrightarrow{OA} \\
 &= 1 \cdot \overrightarrow{OA} + 1 \cdot \overrightarrow{OB} \\
 &= \begin{pmatrix} 1 \\ 1 \end{pmatrix}
 \end{aligned}$$



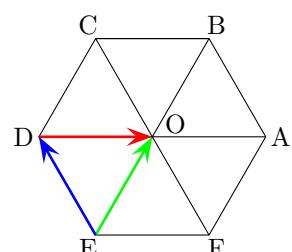
$$\begin{aligned}
 (b) \quad \overrightarrow{DC} &= \overrightarrow{OB} \\
 &= 0 \cdot \overrightarrow{OA} + 1 \cdot \overrightarrow{OB} \\
 &= \begin{pmatrix} 0 \\ 1 \end{pmatrix}
 \end{aligned}$$



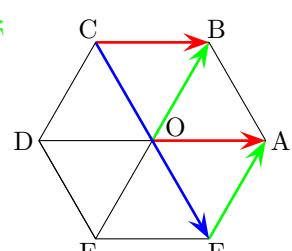
$$\begin{aligned}
 (c) \quad \overrightarrow{BC} &= -\overrightarrow{OA} \\
 &= -1 \cdot \overrightarrow{OA} + 0 \cdot \overrightarrow{OB} \\
 &= \begin{pmatrix} -1 \\ 0 \end{pmatrix}
 \end{aligned}$$



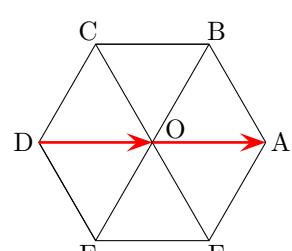
$$\begin{aligned}
 (d) \quad \overrightarrow{ED} &= \overrightarrow{EO} + \overrightarrow{OD} \\
 &= -1 \cdot \overrightarrow{OA} + 1 \cdot \overrightarrow{OB} \\
 &= \begin{pmatrix} -1 \\ 1 \end{pmatrix}
 \end{aligned}$$



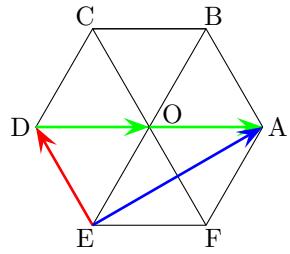
$$\begin{aligned}
 (e) \quad \overrightarrow{CF} &= \overrightarrow{CB} + \overrightarrow{BO} + \overrightarrow{OA} + \overrightarrow{AF} \\
 &= 2 \cdot \overrightarrow{OA} - 2 \cdot \overrightarrow{OB} \\
 &= \begin{pmatrix} 2 \\ -2 \end{pmatrix}
 \end{aligned}$$



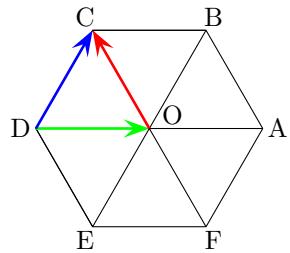
$$\begin{aligned}
 (f) \quad \overrightarrow{AD} &= \overrightarrow{AO} + \overrightarrow{OD} \\
 &= -2 \cdot \overrightarrow{OA} + 0 \cdot \overrightarrow{OB} \\
 &= \begin{pmatrix} -2 \\ 0 \end{pmatrix}
 \end{aligned}$$



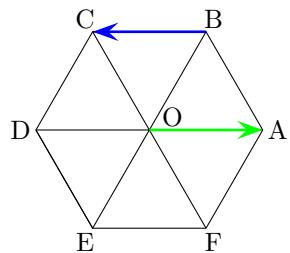
$$\begin{aligned}
 2) \quad (a) \quad \overrightarrow{EA} &= \overrightarrow{ED} + \overrightarrow{DO} + \overrightarrow{OA} \\
 &= 1 \cdot \overrightarrow{OC} + 2 \cdot \overrightarrow{OA} \\
 &= \begin{pmatrix} 1 \\ 2 \end{pmatrix}
 \end{aligned}$$



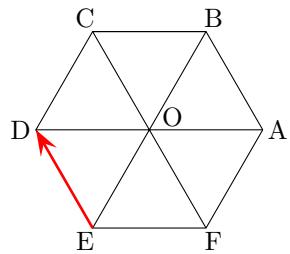
$$\begin{aligned}
 (b) \quad \overrightarrow{DC} &= \overrightarrow{DO} + \overrightarrow{OC} \\
 &= 1 \cdot \overrightarrow{OC} + 1 \cdot \overrightarrow{OA} \\
 &= \begin{pmatrix} 1 \\ 1 \end{pmatrix}
 \end{aligned}$$



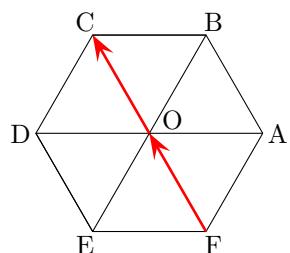
$$\begin{aligned}
 (c) \quad \overrightarrow{BC} &= -\overrightarrow{OA} \\
 &= 0 \cdot \overrightarrow{OC} - 1 \cdot \overrightarrow{OA} \\
 &= \begin{pmatrix} 0 \\ -1 \end{pmatrix}
 \end{aligned}$$



$$\begin{aligned}
 (d) \quad \overrightarrow{ED} &= \overrightarrow{OC} \\
 &= 1 \cdot \overrightarrow{OC} + 0 \cdot \overrightarrow{OA} \\
 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix}
 \end{aligned}$$



$$\begin{aligned}
 (e) \quad \overrightarrow{CF} &= \overrightarrow{CO} + \overrightarrow{OF} \\
 &= -2 \cdot \overrightarrow{OC} + 0 \cdot \overrightarrow{OA} \\
 &= \begin{pmatrix} -2 \\ 0 \end{pmatrix}
 \end{aligned}$$



$$\begin{aligned}
 (f) \quad \overrightarrow{AD} &= \overrightarrow{AO} + \overrightarrow{OD} \\
 &= 0 \cdot \overrightarrow{OC} - 2 \cdot \overrightarrow{OA} \\
 &= \begin{pmatrix} 0 \\ -2 \end{pmatrix}
 \end{aligned}$$

