8.5
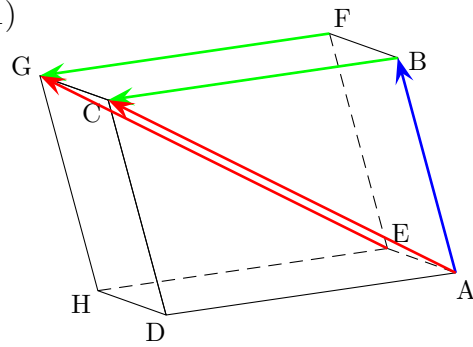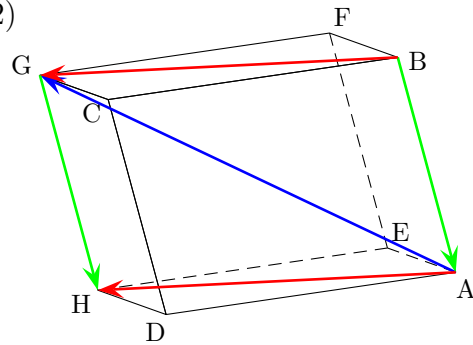
1)
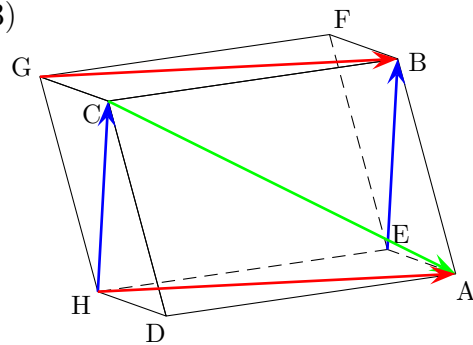

$$\vec{a} = \overrightarrow{AB} + \overrightarrow{FG}$$
$$= \overrightarrow{AB} + \overrightarrow{BC}$$
$$= \overrightarrow{AC}$$
$$= \overrightarrow{EG}$$

2)
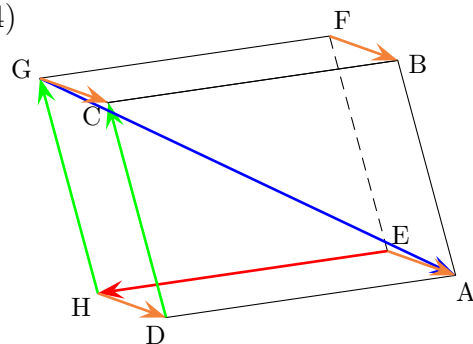

$$\vec{b} = \overrightarrow{AG} + \overrightarrow{BA}$$
$$= \overrightarrow{AG} + \overrightarrow{GH}$$
$$= \overrightarrow{AH}$$
$$= \overrightarrow{BG}$$

3)
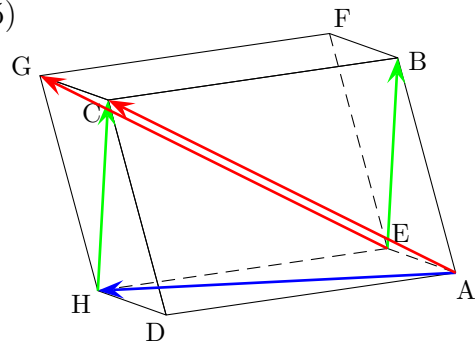

$$\vec{c} = \overrightarrow{EB} + \overrightarrow{CA}$$
$$= \overrightarrow{HC} + \overrightarrow{CA}$$
$$= \overrightarrow{HA}$$
$$= \overrightarrow{GB}$$

4)
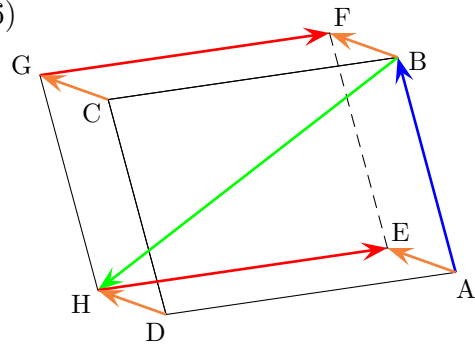

$$\vec{d} = \overrightarrow{EH} + \overrightarrow{DC} + \overrightarrow{GA}$$
$$= \overrightarrow{EH} + \overrightarrow{HG} + \overrightarrow{GA}$$
$$= \overrightarrow{EA}$$
$$= \overrightarrow{FB} = \overrightarrow{GC} = \overrightarrow{HD}$$

5)

$$\vec{e} = \overrightarrow{AH} + \overrightarrow{EB}$$
$$= \overrightarrow{AH} + \overrightarrow{HC}$$
$$= \overrightarrow{AC}$$
$$= \overrightarrow{EG}$$

6)

$$\vec{f} = \overrightarrow{AB} + \overrightarrow{CC} + \overrightarrow{BH} + \overrightarrow{GF}$$
$$= \overrightarrow{AB} + \vec{0} + \overrightarrow{BH} + \overrightarrow{HE}$$
$$= \overrightarrow{AE}$$
$$= \overrightarrow{BF} = \overrightarrow{CG} = \overrightarrow{DH}$$