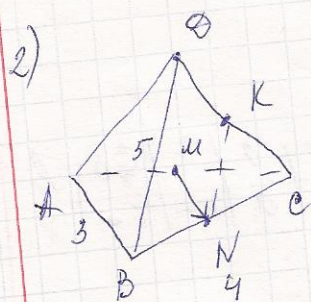
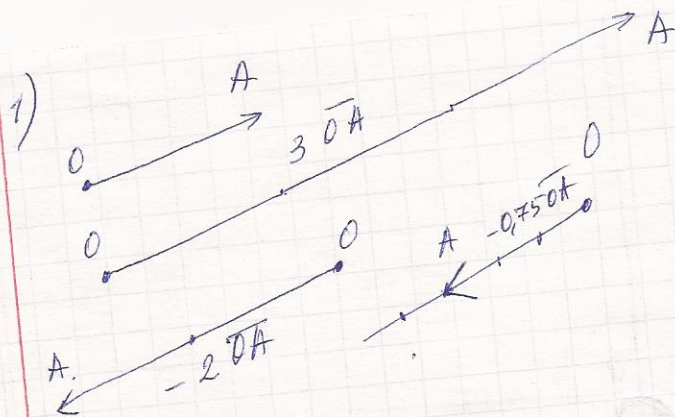
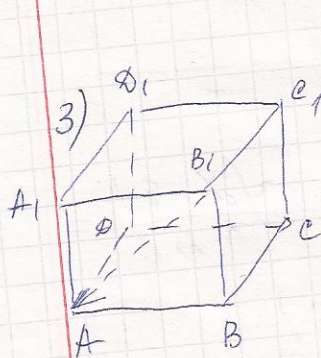
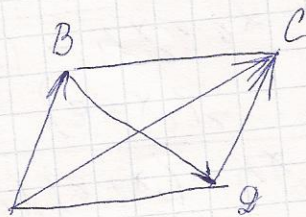




$$\begin{aligned} \overrightarrow{AB} &= 3 & \overrightarrow{MN} &= \frac{1}{2} \cdot 3 = 1,5 \\ \overrightarrow{BC} &= 4 & \overrightarrow{BN} &= \frac{1}{2} \cdot 4 = 2 \\ \overrightarrow{BD} &= 5 & \overrightarrow{NK} &= \frac{1}{2} \cdot 5 = 2,5 \\ \overrightarrow{AD} &= 3 & \overrightarrow{KN} &= 2,5 \end{aligned}$$



а) Противоположны $\overrightarrow{B_1A}$
 $\overrightarrow{AB_1}$; $\overrightarrow{DC_1}$
 б) равны $\overrightarrow{AC}$; $\overrightarrow{A_1B_1}$; $\overrightarrow{D_1C_1}$
 векторы $\overrightarrow{AB}$; $\overrightarrow{A_1B_1}$; $\overrightarrow{D_1C_1}$



$$\begin{aligned} \overrightarrow{AB} + \overrightarrow{BA} &= \overrightarrow{AD} \\ \overrightarrow{AB} + \overrightarrow{BD} &= \overrightarrow{AC} - \overrightarrow{DC} \\ \overrightarrow{AB} &= \overrightarrow{AC} - \overrightarrow{DC} - \overrightarrow{BD} \\ \overrightarrow{AB} &= \overrightarrow{AC} + \overrightarrow{CD} + \overrightarrow{DB} \end{aligned}$$