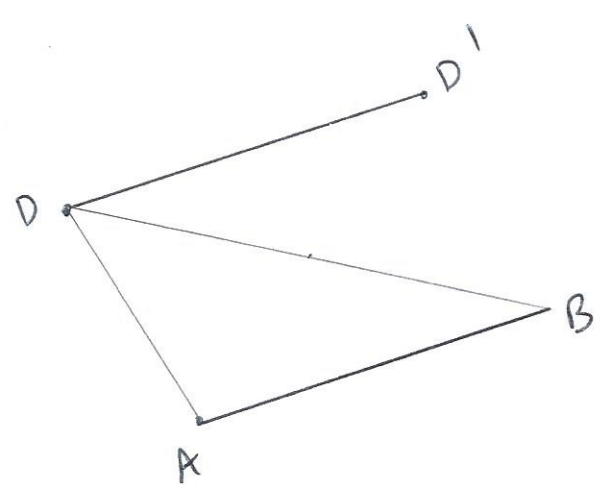
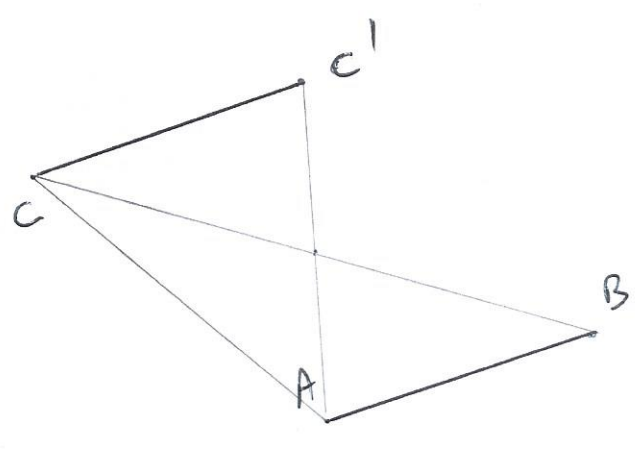
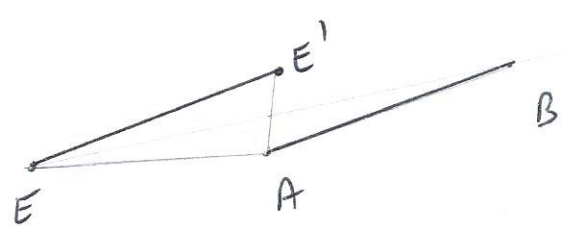
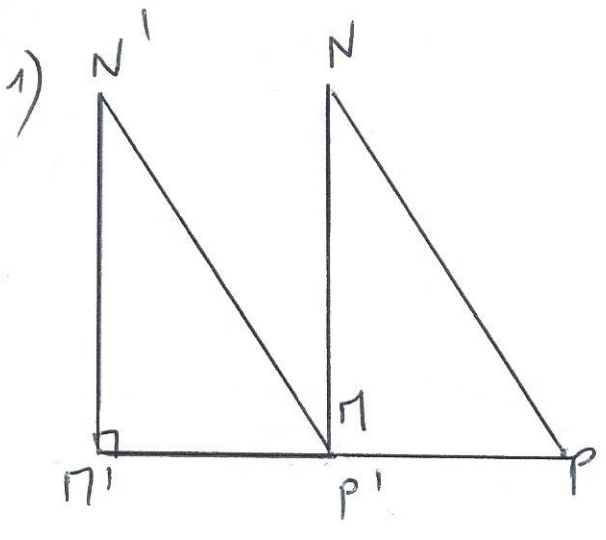


①



Mode Emploi: on sait que les quadrilatères sont des parallélogrammes.
 on trace les diagonales (par exemple EB pour le premier et on repère son milieu. Ce milieu est aussi le milieu de AE' (milieu de la diagonale AE').

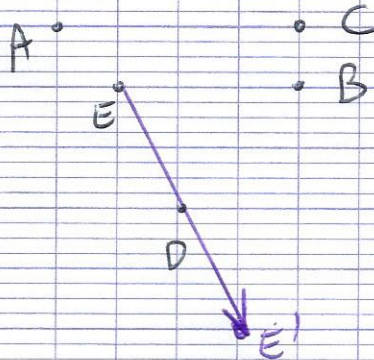
②



2)

$$\vec{PP'} = \vec{PP'} = \vec{P'N'} = \vec{N'N'} = \vec{NN'}$$

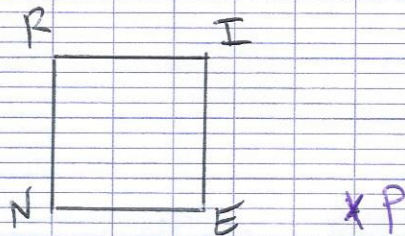
③



$$\vec{EE'} = \vec{AB} + \vec{CD}$$

④

1)



$$2) \vec{IP} = \vec{RE}$$

$$3) a) \vec{RE} + \vec{EI} = \vec{RI}$$

$$b) \vec{NR} + \vec{RE} = \vec{NI}$$

$$c) \vec{NR} + \vec{EP} = \vec{NR} + \vec{IE} + \vec{EP} = \vec{NR} + \vec{RN} + \vec{NE} = \vec{NE}$$