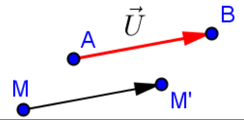
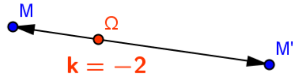
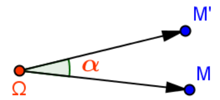
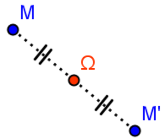
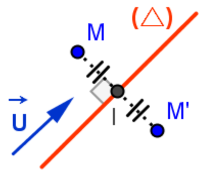
| Expression Complexe | Expression vectorielle | Figure | Transformations |
|---|---|---|---|
| $t_{\vec u}(M)=M' \Leftrightarrow z'=z+z_{\vec u}$ | $\overrightarrow{MM'}=\vec U \Leftrightarrow t_{\vec u}(M)=M'$ |   | Translation $t_{\vec u}$ |
| $h(M)=M' \Leftrightarrow z'-\omega=k(z-\omega)$ | $\mathbf{h(M)=M' \Leftrightarrow \overrightarrow{\Omega M'}=k.\overrightarrow{\Omega M}}$ |   | h : homothétie de centre $\Omega(\omega)$ et de rapport **k** |
| $R(M)=M' \Leftrightarrow z'-\omega=e^{i\alpha}(z-\omega)$ | $\mathbf{R(M)=M' \Leftrightarrow \begin{cases}\Omega M=\Omega M' \\ (\widehat{\overrightarrow{\Omega M},\overrightarrow{\Omega M'}})=\alpha\end{cases}}$ |   | **R** : Rotation de centre $\Omega(\omega)$ et d'angle **α** |
| $R(M)=M' \Leftrightarrow z'-\omega=-(z-\omega)$ | $\mathbf{S_\Omega(M)=M' \Leftrightarrow \overrightarrow{\Omega M'}=-.\overrightarrow{\Omega M}}$ |   | $S_\Omega$ : Symétrie centrale de centre $\Omega(\omega)$ et |
| | $S_\Delta(M)=M' \Leftrightarrow \begin{cases}\overrightarrow{MM'}\perp\vec U \\ I\in(\Delta)\end{cases}$ |   | $S_\Delta$ : Symétrie axiale D'axe $(\Delta)$ et |