LE TRASLAZIONI

di → vettore $\vec{v}\begin{pmatrix}a\\b\end{pmatrix}$ → ha equazione → $\begin{cases}X=x+a\\Y=y+b\end{cases}$

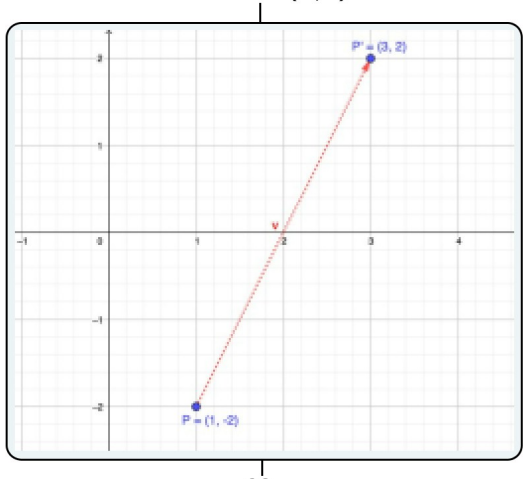
di un punto P(x,y)

conosco P e v

uso le equazioni

$\begin{cases}X=x+a\\Y=y+b\end{cases}$

e trovo P'(X,Y)



es.

P(1, -2) , $\vec{v}\begin{pmatrix}2\\4\end{pmatrix}$

$\begin{cases}X = 1 + 2 = 3\\Y = -2 + 4 = 2\end{cases}$

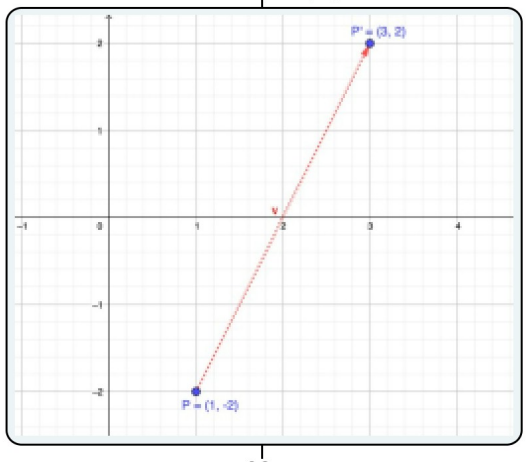
P'(3, 2)

conosco P e P'

uso le equazioni

$\begin{cases}a=X-x\\b=Y-y\end{cases}$

e trovo $\vec{v}\begin{pmatrix}a\\b\end{pmatrix}$



es.

P(1, -2) , P'(3, 2)

$\begin{cases}a = 3 - 1 = 2\\b = 2- (-2) = 4\end{cases}$

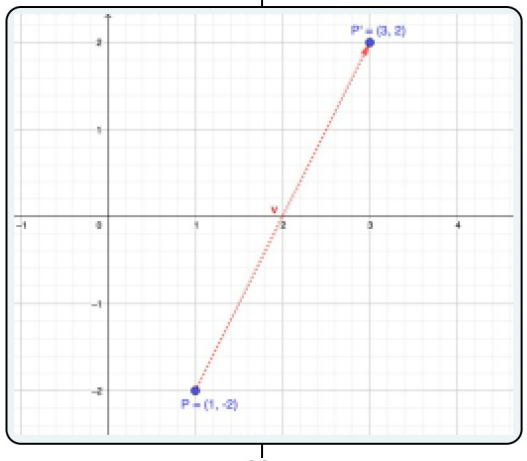
$\vec{v}\begin{pmatrix}2\\4\end{pmatrix}$

conosco v e P'

uso le equazioni

$\begin{cases}x=X-a\\y=Y-b\end{cases}$

e trovo $\vec{v}\begin{pmatrix}a\\b\end{pmatrix}$



es.

P'(3, 2) , $\vec{v}\begin{pmatrix}2\\4\end{pmatrix}$

$\begin{cases}x = 3 - 2 = 1\\y = 2 - 4 = -2\end{cases}$

P(1, -2)