

Lat $p$ be the foot of the perpendicular to the axes of rflution.

Translate $2_{p}-r$ by a
gives $2 p-v+a$
Midpt of $2 p-v+a$ and $V$ is:
$p+\frac{a}{2} \rightarrow$ reflection thru $p+\frac{a}{2}$.

SPECiAL CASE: Dirution of translation 11 to axis of
 relation.

The product fives no point. whin $a \neq 0$.

This cant be a oflution, rotation \& can't be a translation.

Def: A GLIDE is a reflection in a line followed by a translation parallel to the line of reflection.

GENERAL CASE: Write $a=b+c$ when
$b$ is perpendicular to the $a \times i s$ $c$ ir parallel to it. prylution

$$
\sim \mu_{\theta / 2}\left(\tau_{a}(v)\right)=M_{\theta}(v)+a=\frac{\sum_{b j l i d}^{\left(M_{\theta}(v)+b\right)}+c}{}
$$

