apply(
$$\langle \mathbf{R}_y, \mathbf{t}_y \rangle$$
, apply($\langle \mathbf{R}_x, \mathbf{t}_x \rangle$, \mathbf{p})) = apply($\langle \mathbf{R}_y, \mathbf{t}_y \rangle$, $\mathbf{R}_x \mathbf{p} + \mathbf{t}_x$)
= $\mathbf{R}_y \mathbf{R}_x \mathbf{p} + \mathbf{R}_y \mathbf{t}_x + \mathbf{t}_y$.