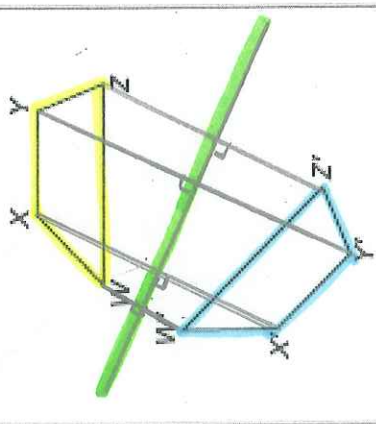
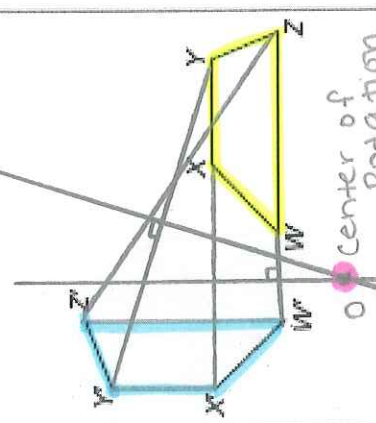
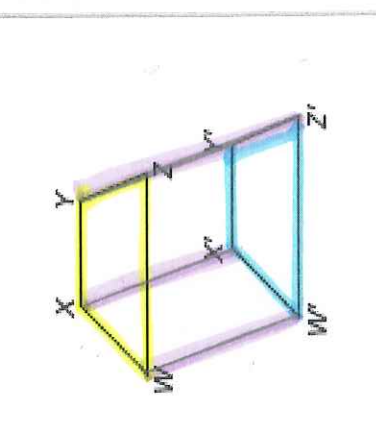


Labsheet 1.4

Transformation Properties

<p>A. Describe each transformation with as much detail as you can.</p> <p><u>original</u></p> <p><u>symmetric</u></p>	<p>Reflection: Find the reflection line.</p> 	<p>Rotation: Find the center of rotation.</p> 	<p>Find the direction and distance of the translation.</p> 
<p>B. What distances are equal?</p>	<p>For all three transformations, the distances between the corresponding original figure are = to the corresponding vertices.</p>	<p>* All segments are also equal</p>	<p>* All segments are also equal</p>
<p>1. What angles are equal?</p>	<p>For all three, the angle measures of the corresponding angles.</p>	<p>* $\angle XOX' = 40^\circ$</p>	<p>* Segments that join points</p>
<p>2. What line segments are parallel?</p>	<p>Any line segments that are parallel in the original figure are also parallel in the symmetrical figure.</p>	<p>none</p>	<p>none</p>
<p>3. Which points and/or lines are "unmoved," if any?</p>	<p>none</p>	<p>none</p>	<p>none</p>
<p>4. Which properties of the original figure are preserved?</p>	<p>All properties are preserved</p>	<p>none</p>	<p>none</p>