

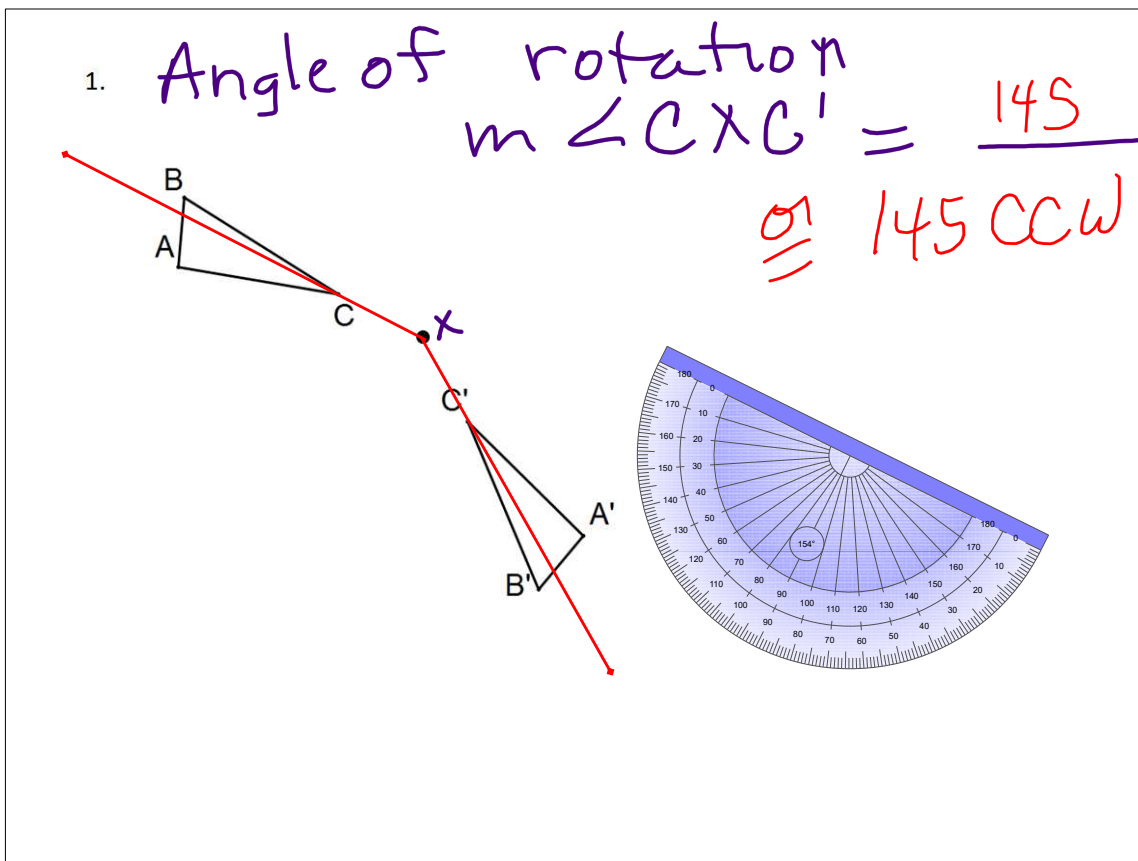
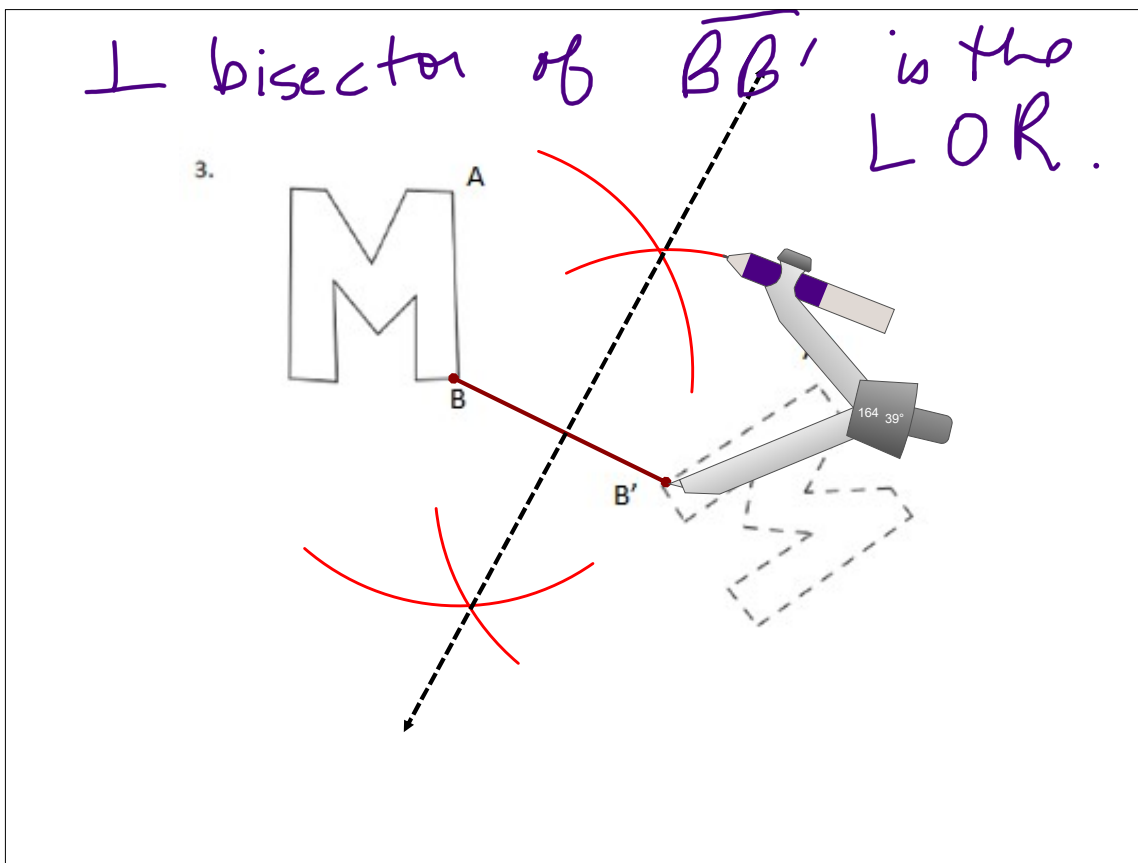
Complete the problems from yesterday's notes

2. Rotate quadrilateral $ABCD$ 120° around point E using a straightedge and protractor.

The diagram shows a yellow quadrilateral $ABCD$ with vertices A , B , C , and D and a center of rotation E . A green quadrilateral $A'B'C'D'$ is shown as the result of a 120° clockwise rotation around E . A blue protractor is positioned below the diagram, and a compass is shown to the right.

2.

The diagram shows a solid blue quadrilateral $ABCD$ with vertices A , B , C , and D and a center of rotation E . A dashed blue quadrilateral $A'B'C'D'$ is shown as the result of a rotation around E . A dashed line with arrows indicates the direction of rotation. A compass is shown to the right.



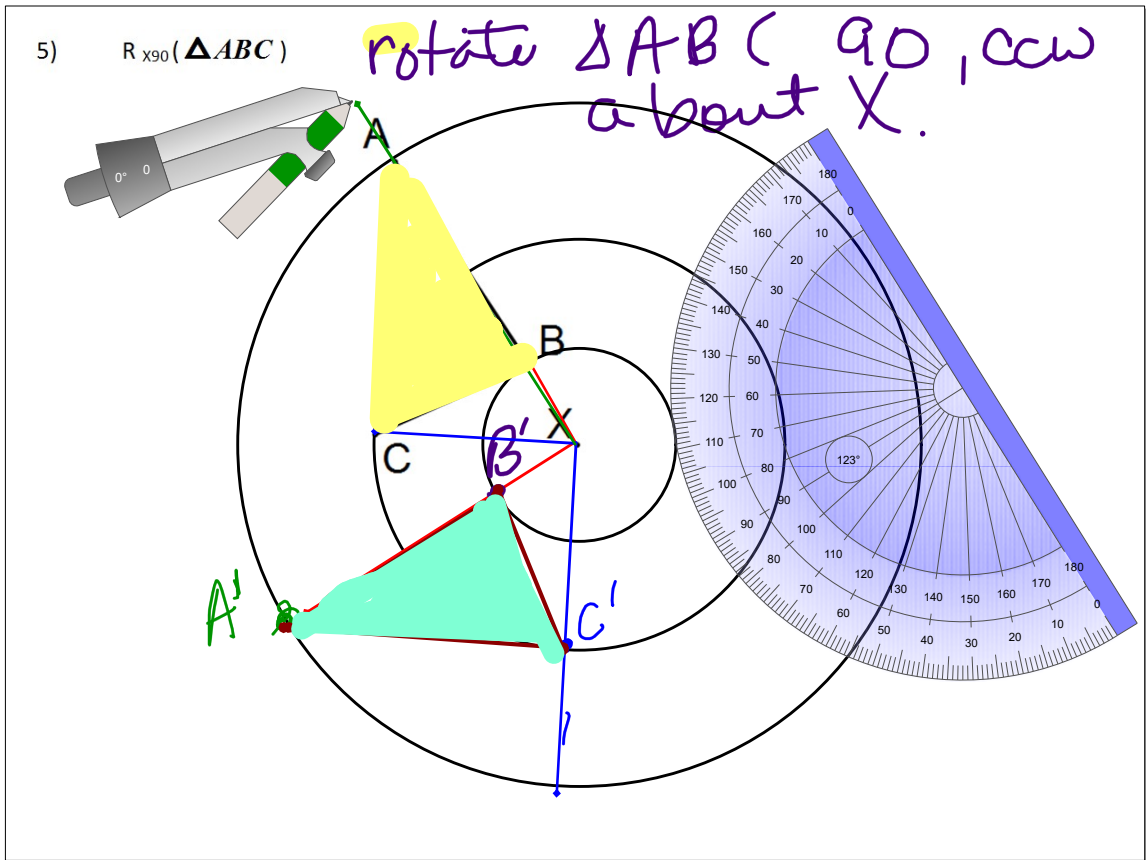
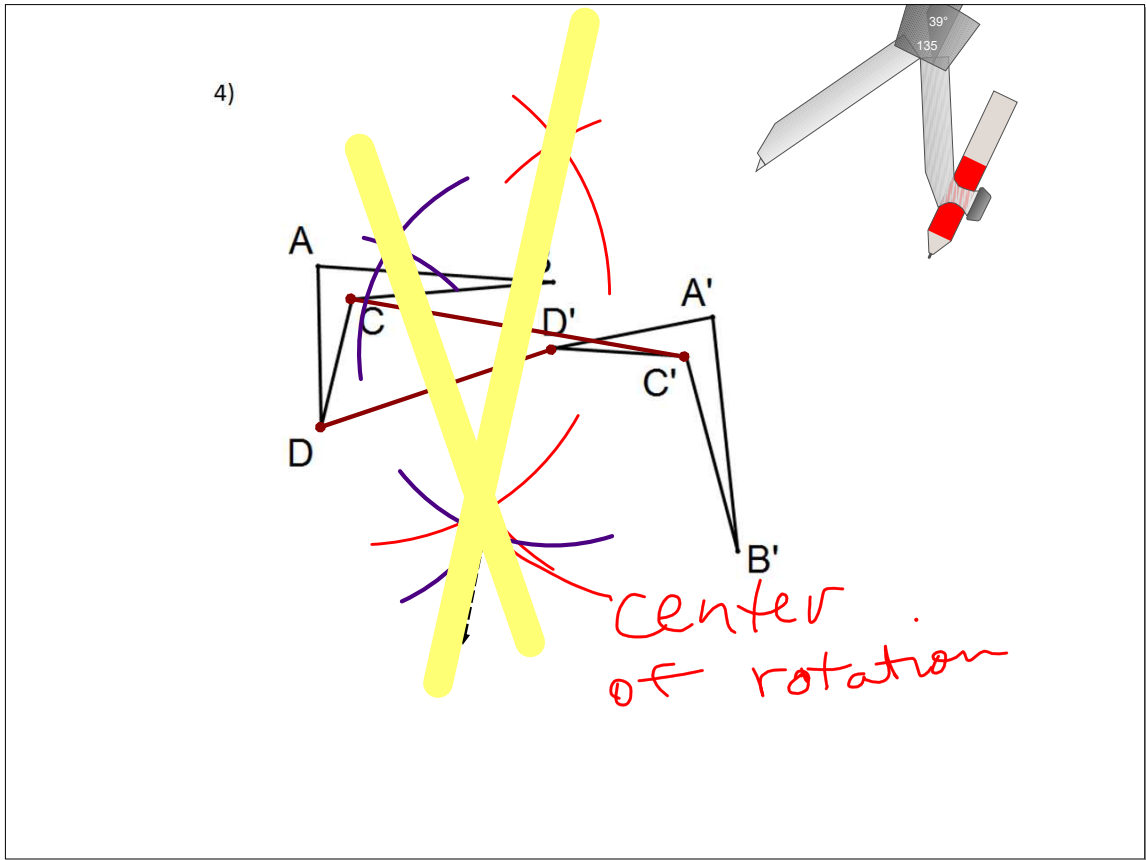
2) *Angle of rotation*
 $m\angle AXA' = \underline{57}$
or 57 CW

The diagram shows a triangle ABC and its image A'B'C' after a rotation. The center of rotation is marked as X. Red lines connect X to A and A', X to B and B', and X to C and C'. A protractor is placed with its center at X to measure the angle of rotation. The angle between ray XA and ray XA' is marked as 57 degrees. The text indicates this is a clockwise rotation of 57 degrees.

Construct the Center of Rotation. *2 \perp bisectors*

3)

The diagram shows a triangle ABC and its image A'B'C'. Two perpendicular bisectors are drawn: one for segment AA' and one for segment BB'. The intersection of these two bisectors is marked as the center of rotation. A red arrow points to this intersection with the text "center of rotation". A large green diagonal line is drawn across the diagram. To the right, there is an illustration of a compass and a straightedge.



6) $R_{X-50}(\triangle ABC)$ Rotate $\triangle ABC$ 50 CW about A

The diagram illustrates the rotation of triangle ABC 50 degrees clockwise about point A . The original triangle is yellow, and the rotated image is cyan. A center of rotation X is marked. A protractor is used to measure the 50-degree angle. A compass is also shown.