Name:_____Period:__ **Construction Practice for Final Exam**

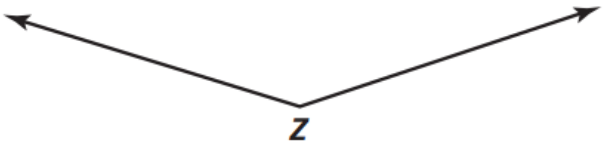
Constructions require a compass and a straightedge

1. Construct $\overline{AB}$ congruent to $\overline{XY}$. Check your work with a ruler.

2. Construct the perpendicular bisector of $\overline{XY}$.

3. Construct a triangle whose sides are all the same length as $\overline{XY}$.

4. Construct the angle bisector of $\angle Z$.



5. Construct an isosceles triangle using segment XY twice and angle Z.

6. **a.** Construct a 90° angle. **Hint: start with a straight angle!**

b. Construct a 45° angle.

7. Construct $\overline{AB}$ so that $AB = MN + OP$.

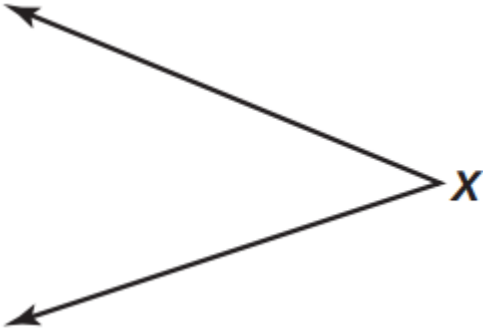
8. Construct $\overline{KL}$ so that $KL = OP - MN$.

9. Construct $\angle A$ so that $m\angle A = m\angle 1 + m\angle 2$.

10. Construct $\angle B$ so that $m\angle B = m\angle 1 - m\angle 2$.

11. Construct $\angle C$ so that $m\angle C = 2m\angle 2$.

12. Construct the angle bisector of $\angle X$.



13. **Construct a triangle using angle 1, angle 2, and segment OP. What triangle congruence is being used?**

14. **Construct a triangle using segment XY, segment MN, and segment OP. What triangle congruence is being used?**

15. **Construct a triangle using angle X, Segment MN, and segment OP. What triangle congruence is being used?**