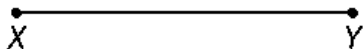


1-5

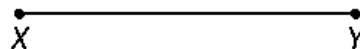
Basic Constructions

For Exercises 1–13, do the construction using the figures below. Check your work with a ruler or a protractor.

1. Construct \overline{AB} congruent to \overline{XY} .

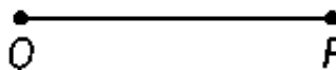


2. Construct the perpendicular bisector of \overline{XY} .



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

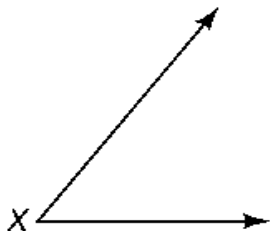
4. Construct a bisector of \overline{OP} .



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



6. Construct $\angle Z$ so that $m\angle Z = \frac{1}{2}m\angle X$.



7. On the back of this paper, draw a segment \overline{ST} .

- Construct a right triangle with two legs that have the measure $\frac{1}{2}\overline{ST}$
- Reasoning** Describe how to construct a 45° angle. Then describe how to construct an isosceles right triangle.