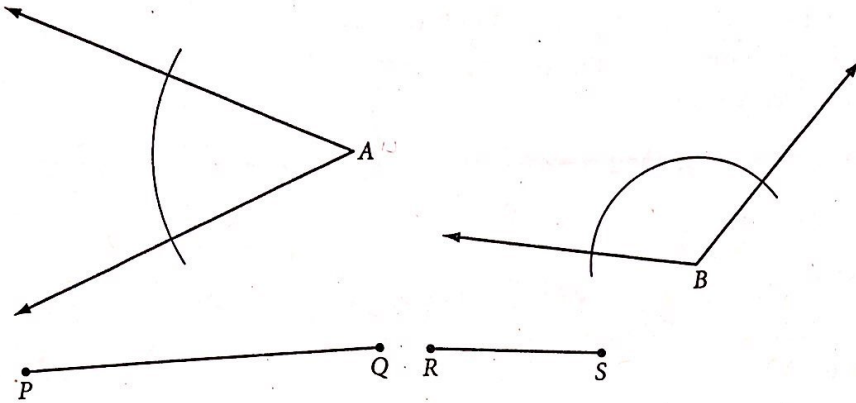


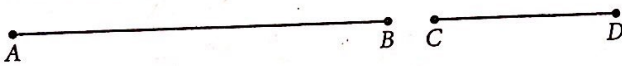
Lesson 3.1 • Duplicating Segments and Angles

Name _____ Period _____ Date _____

In Exercises 1–3, use the segments and angles below. Complete the constructions on a separate piece of paper.



- Using only a compass and straightedge, duplicate each segment and angle. There is an arc in each angle to help you.
- Construct a line segment with length $3PQ - 2RS$.
- Duplicate the two angles so that the angles have the same vertex and share a common side, and the nonshared side of one angle falls inside the other angle. Then use a protractor to measure the three angles you created. Write an equation relating their measures.
- Use a compass and straightedge to construct an isosceles triangle with two sides congruent to \overline{AB} and base congruent to \overline{CD} .



- ~~Repeat Exercise 4 with patty paper and a straightedge.~~
- Construct an equilateral triangle with sides congruent to \overline{CD} .

