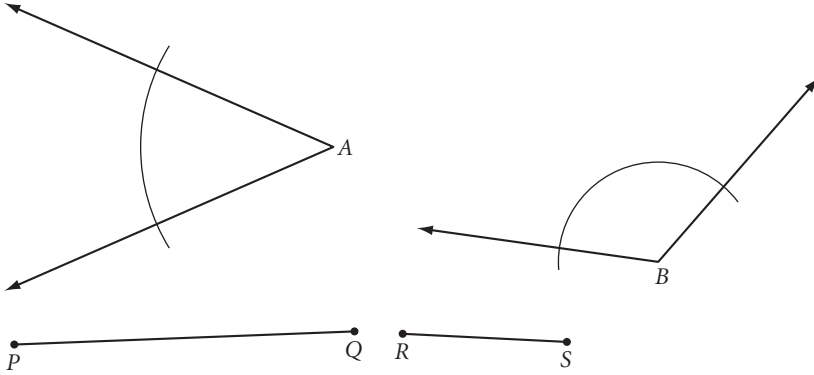


Duplicating Segments and Angles

Name _____ Period _____ Date _____

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



1. Using only a compass and straightedge, duplicate each segment and angle. There is an arc in each angle to help you.
2. Construct a line segment with length $3PQ - 2RS$.
3. 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.
4. Use a compass and straightedge to construct an isosceles triangle with two sides congruent to \overline{AB} and base congruent to \overline{CD} .



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

