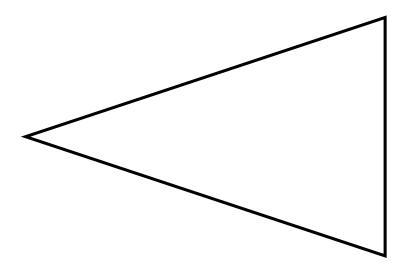
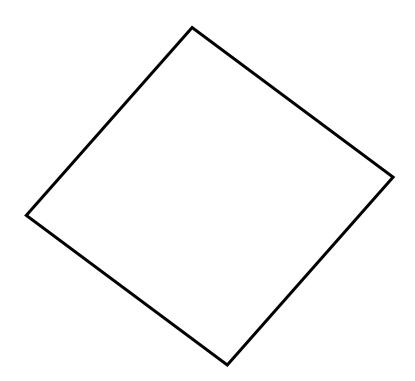
Name:	Date:	Period:

Unit 1 Segment 2: Bisector Constructions

Perform segment bisector constructions on all three sides of the triangle



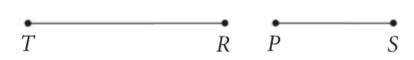
Perform angle bisector constructions on all four angles of the rhombus



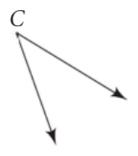
1. Construct \overline{XY} congruent to \overline{AB} .



2. Construct \overline{VW} so that VW = 2AB.

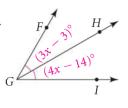


3. Construct \overline{DE} so that DE = TR + PS.



- **4.** Construct \overline{QJ} so that QJ = TR PS.
- **5.** Construct $\angle D$ so that $\angle D \cong \angle C$.
- **6.** Construct $\angle F$ so that $m \angle F = 2m \angle C$.

- 9. Algebra \overrightarrow{GH} bisects $\angle FGI$.
 - **a.** Solve for *x* and find $m \angle FGH$.
 - **b.** Find $m \angle HGI$.
 - **c.** Find $m \angle FGI$.



- **7.** Construct the perpendicular bisector of \overline{AB} .
- \overrightarrow{BX} bisects $\angle ABC$. Solve for x and find $m \angle ABC$.

10.
$$m \angle ABX = 5x, m \angle XBC = 3x + 10$$

13. Draw acute $\angle PQR$. Then construct its bisector.