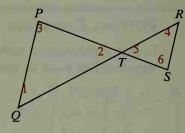
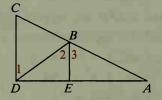
- 20. Given: $\angle 1 \cong \angle 2$; $\angle 4 \cong \angle 5$ What can you prove about \overline{PQ} and \overline{RS} ? Be prepared to give your reasons in class, if asked.
- **21.** Given: $\angle 3 \cong \angle 6$ What can you prove about other angles? Be prepared to give your reasons in class, if asked.

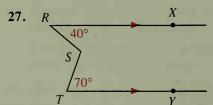


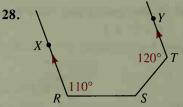
- 22. Copy what is shown for Theorem 3-6 on page 84. Then write a proof in two-column form.
- 23. Copy what is shown for Theorem 3-7 on page 84. Then write a proof in two-column form.
- **24.** Given: \overline{BE} bisects $\angle DBA$; $\angle 3 \cong \angle 1$ Prove: $\overline{CD} \parallel \overline{BE}$
- 25. Given: $\overline{BE} \perp \overline{DA}$; $\overline{CD} \perp \overline{DA}$ Prove: $\angle 1 \cong \angle 2$
- **26.** Given: $\angle C \cong \angle 3$; $\overline{BE} \perp \overline{DA}$

Prove: $\overline{CD} \perp \overline{DA}$

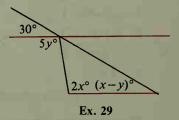


Find the measure of $\angle RST$. (Hint: Draw a line through S parallel to RX and TY.)





29. Find the values of x and y that make the lines shown in red parallel.



- 30. Draw two parallel lines cut by a transversal. Then draw the bisectors of two corresponding angles. What appears to be true about the bisectors? Prove that your conclusion is true.
 - 31. Find the value of x that makes the lines shown in red parallel.

