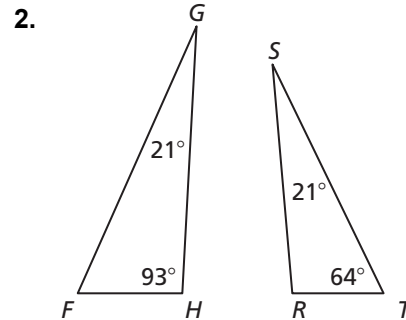
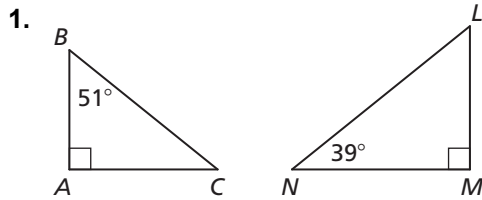


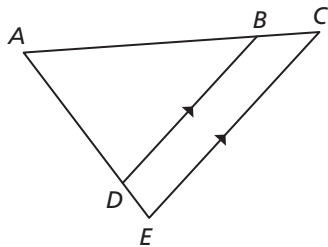
8.4 Practice A

In Exercises 1 and 2, determine whether the triangles are similar. If they are, write a similarity statement. Explain your reasoning.

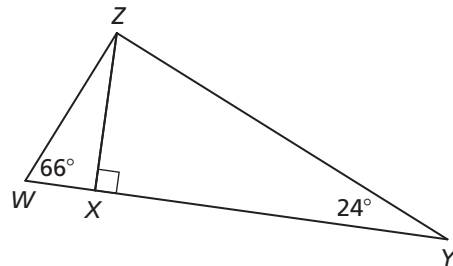


In Exercises 3 and 4, show that the two triangles are similar.

3. $\triangle ABD$ and $\triangle ACE$

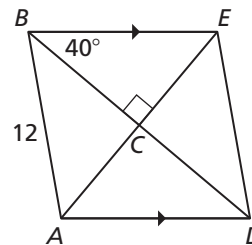


4. $\triangle WXZ$ and $\triangle ZXY$



5. In the diagram, $\triangle ABC \sim \triangle EDC$.

- Is $\overline{AB} \parallel \overline{DE}$? Explain your reasoning.
- Show that $\triangle ACD \sim \triangle ECB$.
- Find $m\angle CAD$.
- Find ED .
- Find AD . Explain your reasoning.



In Exercises 6 and 7, is it possible for $\triangle ABC$ and $\triangle XYZ$ to be similar? Explain your reasoning.

- $m\angle A = 43^\circ$, $m\angle B = 61^\circ$, $m\angle Y = 61^\circ$, and $m\angle Z = 74^\circ$
- $\angle A$ and $\angle X$ are right angles and $\angle B \cong \angle Z$.
- Use the figure to write a two-column proof.

Given $\angle Q \cong \angle T$

Prove $\overline{PQ} \parallel \overline{ST}$

