8.1 Practice A

In Exercises 1 and 2, find the scale factor. Then list all pairs of congruent angles and write the ratios of the corresponding side lengths in a statement of proportionality.



In Exercises 3 and 4, the polygons are similar. Find the value of x.



In Exercises 5–11, $\triangle ABC \sim \triangle XYZ$.

- **5.** Find the scale factor of $\triangle ABC$ to $\triangle XYZ$.
- **6.** Find $m \angle X$.
- **7.** Find *CD*.
- **8.** Find the area of $\triangle ABC$. Then find the area of $\triangle XYZ$.
- **9.** Find the ratio of the area of $\triangle ABC$ to the area of $\triangle XYZ$.
- 10. Find BC and YZ. Explain your reasoning.
- **11.** Find the ratio of the perimeter of $\triangle ABC$ to the perimeter of $\triangle XYZ$.



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