

B.1 Practice B

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

1. $\triangle ABC \sim \triangle RST$



2. $WXYZ \sim ZYUW$



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

3.



4.



In Exercises 5 and 6, the figures are similar. Find the missing corresponding side length.

5. Figure A has a perimeter of 60 inches and one of the side lengths is 5 inches. Figure B has a perimeter of 84 inches.
6. Figure A has an area of 4928 square feet and one of the side lengths is 38 feet. Figure B has an area of 77 square feet.
7. In the diagram, $\triangle ABC \sim \triangle ADE$.

- a. Find the scale factor from $\triangle ABC$ to $\triangle ADE$.
- b. Find the value of x .
- c. Find $m\angle ABC$.
- d. The perimeter of $\triangle ABC$ is about 42.4 units. Find the perimeter of the $\triangle ADE$.
- e. The area of $\triangle ABC$ is about 71.75 square units. Find the area of the $\triangle ADE$.
- f. Is $\overline{BC} \parallel \overline{DE}$? Explain your reasoning.



Practice 8 1 Worksheet

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