Name _____

Similar Figures

Decide whether each pair of figures is similar.

1. _____

110° 70°
25 in. 70° 110°
35 in.
15 in. 110° 70°
70° 110°
21 in.

2. _____

15 cm 14 cm
18 cm
24 cm 22 cm
27 cm

3. _____

48 ft 42 ft
24 ft 20 ft

4. _____

4 cm
4.8 cm 5.2 cm 6 cm
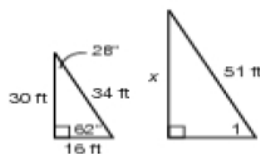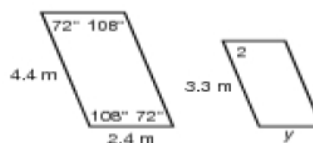67.4°
6 cm
5 cm
6.5 cm
67.4°
7.5 cm
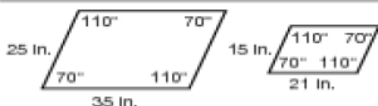
5. The two triangles are similar.

   a. Find x. _____

   b. Find the measure of $\angle 1$. _____

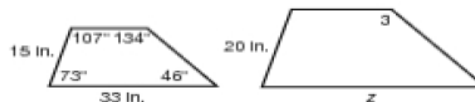**6.** The two parallelograms are similar.

   a. Find y. _____

   b. Find the measure of $\angle 2$. _____

7. The two trapezoids are similar.

   a. Find z. _____

   b. Find the measure of $\angle 3$. _____

8. The two car drawings are similar.
Find x, the length of the larger car.

_____

9. The Society Tower in Cleveland, Ohio, is 271 m tall. A scale drawing shows the tower at 10.84 cm. What is the scale factor of the drawing?

_____

28°
30 ft 34 ft
62°
16 ft
x 51 ft
1

72° 108°
4.4 m
108° 72°
2.4 m
2
3.3 m
y

107° 134°
15 in. 73° 46°
33 in.
20 in.
3
z

45 cm
x
27 cm
51 cm