NAME _____ DATE _____ PERIOD _____

5-6

Practice

The Law of Sines

Solve each triangle. Round to the nearest tenth.

1. $A = 38°, B = 63°, c = 15$

2. $A = 33°, B = 29°, b = 41$

3. $A = 150°, C = 20°, a = 200$

4. $A = 30°, B = 45°, a = 10$

Find the area of each triangle. Round to the nearest tenth.

5. $c = 4, A = 37°, B = 69°$

6. $C = 85°, a = 2, B = 19°$

7. $A = 50°, b = 12, c = 14$

8. $b = 14, C = 110°, B = 25°$

9. $b = 15, c = 20, A = 115°$

10. $a = 68, c = 110, B = 42.5°$

11. ***Street Lighting*** A lamppost tilts toward the sun at a 2° angle from the vertical and casts a 25-foot shadow. The angle from the tip of the shadow to the top of the lamppost is 45°. Find the length of the lamppost.