11.4 Area of Oblique Triangles   Name _____

Find the area of the following oblique triangles to the nearest tenth. You must draw a diagram and show all work.

1. m∠A = 42.5°, b = 13.6, c = 10.1   2. a = 31, b = 23, c = 14

3. m∠B = 124.5°, a = 30.4, c = 28.4   4. a = 22, b = 25, c = 30

5. m∠A = 56.8°, b = 32.67, c = 52.89   6. a = 12, b = 12, c = 12

7. m∠A = 24°, m∠B = 56°, c = 78.4   8. a = 10, b = 24, c = 25
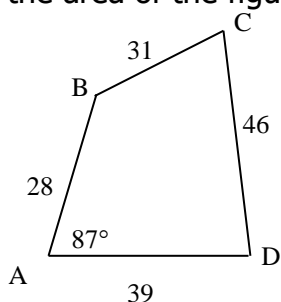
9. A painter is going to apply a special coating to a triangular metal plate. Two sides measure 16.1 m and 15.2 m. She knows that the angle between these two sides is 125°. What is the area of the surface of the plate?
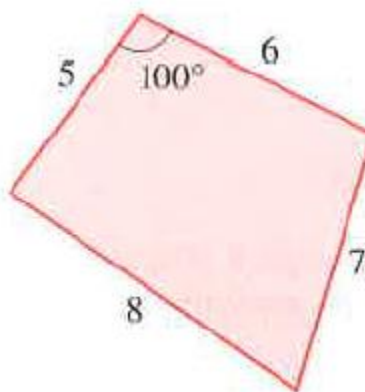
10. A real estate agent wants to find the area of a triangular lot. A surveyor takes measurements and finds that two sides are 52.1 m and 21.3 m, and the angle between them is 42.2°. What is the area of the lot?

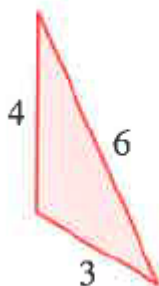Find the area of the figures to the nearest tenth of a square unit.

11.

33.

31.

32.