Advanced Geometry Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Trigonometry Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Block\_\_\_\_\_\_\_\_\_

The area of ***any*** triangle is given by one-half the product of two adjacent edges and the angle ***between*** them.

B

**Area of Triangle ABC**

 **½ *ab* sin C** OR **½ *ac* sin B** OR **½ *bc* sinA** A

C

*a*

*c*

*b*

A

Find the area of the triangle.

B

B

7.2 cm

1. 3.

8.4 cm

52°

A

44°

C

A

5.9 cm

C

3.7 cm

B

37°

B

1. 4.

3.1 cm

5.4 cm

6.7 cm

A

55°

A

C

9.3 cm

C