**Chapter 4 Review**

1. Determine the following:

|  |  |
| --- | --- |
| sin 2˚ = \_\_\_\_\_\_\_\_\_  sin 10˚ = \_\_\_\_\_\_\_\_\_  sin 50˚ = \_\_\_\_\_\_\_\_\_  sin 60˚ = ­­­­­­­­­­­\_\_\_\_\_\_\_\_\_ | sin 178˚ = \_\_\_\_\_\_\_\_\_\_  sin 170˚ = \_\_\_\_\_\_\_\_\_\_  sin 130˚ = \_\_\_\_\_\_\_\_\_\_  sin 120˚ = \_\_\_\_\_\_\_\_\_\_ |
| cos 2˚ =  cos 10˚ = \_\_\_\_\_\_\_\_\_  cos 50˚ = ­­­­­­­­­­­\_\_\_\_\_\_\_\_\_  cos 60˚ = ­­­­­­­­­­­\_\_\_\_\_\_\_\_\_ | cos 178˚ = \_\_\_\_\_\_\_\_\_\_  cos 170˚ = \_\_\_\_\_\_\_\_\_\_  cos 130˚ = \_\_\_\_\_\_\_\_\_\_  cos 120˚ = \_\_\_\_\_\_\_\_\_\_ |

**In Summary**: For any angle

sin = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

cos = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

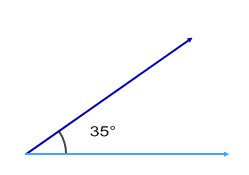
2. Calculate the value(s) for  that satisfy each of the equations listed.

Give your answer to the nearest degree.

a) sin A = 0.6428 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) cos A = 0.4226 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) sin A = 0.9659 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

****3. Given and B

a) Determine the height of the triangle to the

**20 cm**

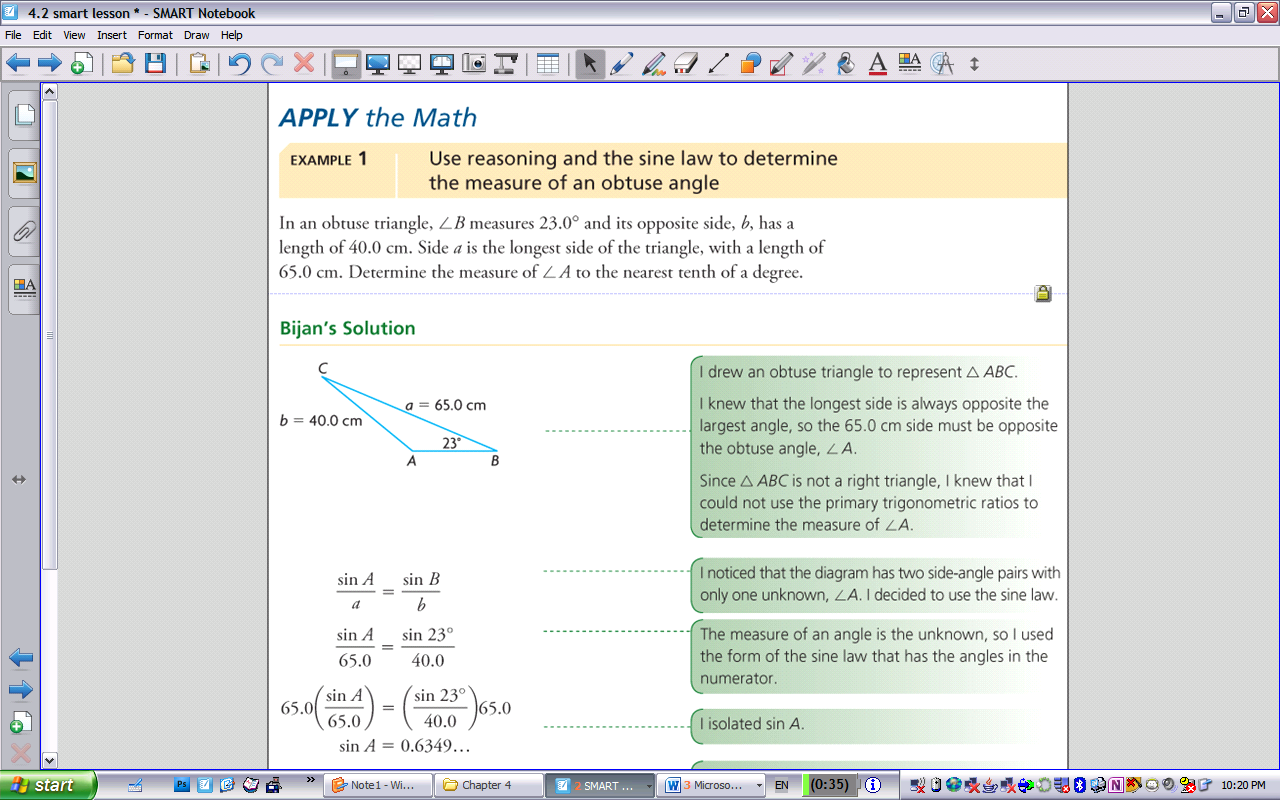
nearest tenth of a centimeter.

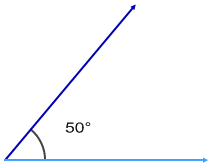
A

b) Determine and illustrate the number c) Determine and illustrate the number

of triangles that can be drawn if . of triangles that can be drawn if

d) Determine and illustrate the number of triangles that can be drawn if

4. Determine the measure of to the nearest degree.

5. Given and

**If ,** determine the number

**20 cm**

of triangle (zero, one, or two) that

are possible for these measurements.

**Draw the triangle(s)** to support your

answer. **Determine side *c* and .**

A

6. Given and and  **,** determine the number of triangle (zero, one, or two) that are possible for these measurements.

**Draw the triangle(s)** to support your answer. **Determine side *c* and .**