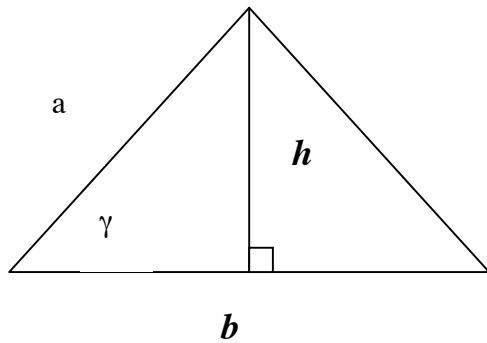


## 7.4 Notes

Recall the area formula for a triangle:

$$A = (1/2)bh$$



$$\sin \gamma = \frac{h}{a}$$

Solving for  $h$ :  $h =$

And substituting into the equation for area  $A = (1/2)bh =$

This allows us to find the area when we know the lengths of two sides of a triangle and the angle between them (SAS).

Now let's work some eGrade #124 problems.

There is another formula for finding the area of a triangle when you know the lengths of all three sides of the triangle.

$$s = (1/2)(a + b + c)$$

$$\text{and } A = \sqrt{s(s-a)(s-b)(s-c)}$$

Now let's work some eGrade #125 problems.