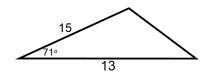
$$c^2 = a^2 + b^2 - 2ab\cos C$$

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$A = \frac{1}{2}ab\sin C$$

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

EQ: How do I find the area of a triangle without known base or height?



ex. Find the area of a triangle with the given parameters.

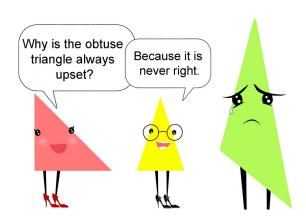
$$m\angle A = 71^{\circ}$$

c = 15

$$b = 13$$

UNIT II OBLIQUE

TRIANGLES



 \square_{\circ} LAW OF SINES EQ: How do I solve oblique triangles using the law of sines?

Example: Using the following information, find side a and side c

$$b = 6$$

$$m\angle B = 56^{\circ}$$

$$m \angle C = 42^{\circ}$$

ex. Find the area j = 81 = 7

ex. Find the area of the quadrilateral.

Ex 2: Solve for m<B b = 7c = 3

II.3 AMBIGUOUS CASE EQ: What type of oblique triangles have no solutions or multiple solutions?

Law of Sines

Ex 1: Find XZ

Law of Cosines

Ex 1: Solve for $m \angle Y$ $m\angle X = 27^{\circ}$ y = 5 x = 4

Ambiguous Case

Ex 2: Solve for z $m\angle X = 27^{\circ}$ y = 5 x = 6

Ex 3: Solve for z $m\angle X = 27^{\circ}$ y = 5 x = 2