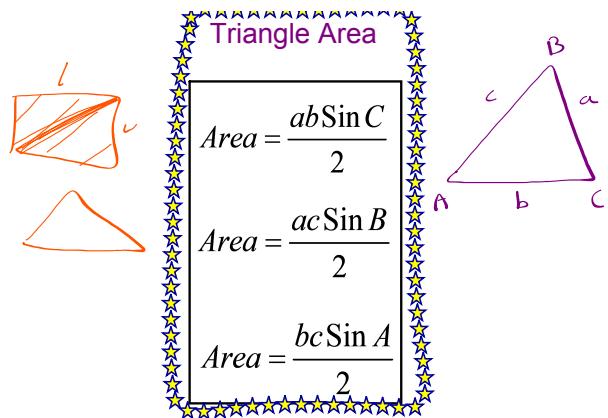


8-2 Triangle Area using Trig

Objectives:

- I can find the area of a triangle using trigonometric formulas.

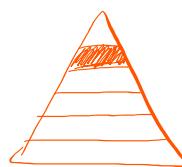


Feb 18-8:12 PM

Jan 7-3:30 PM

Find the area of the given triangle.

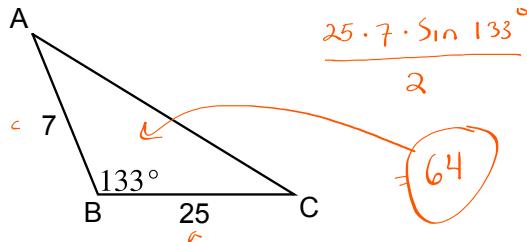
$$\begin{aligned}
 & \text{Given: } \angle C = 53^\circ, AB = 13, BC = 11 \\
 & \text{Area} = \frac{ab \sin C}{2} \\
 & = \frac{13 \cdot 11 \cdot \sin 53^\circ}{2} \\
 & \approx 57.1
 \end{aligned}$$



Jan 7-3:45 PM

Feb 27-9:16 AM

Find the area of the given triangle.



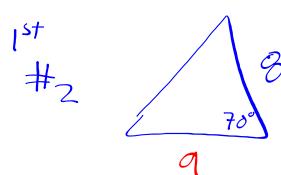
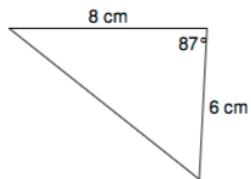
Find the area of the given triangle

$$\begin{aligned} & \text{Given: } \\ & \text{Side AB} = 6 \text{ in} \quad \text{Angle A} = 40^\circ \quad \text{Side AC} = 5 \text{ in} \\ & \text{Area} = \frac{6 \cdot 5 \cdot \sin 140^\circ}{2} \\ & = (9.6) \end{aligned}$$

Jan 7-3:51 PM

Feb 3-6:53 PM

Find the area of the given triangle



Feb 3-7:33 PM

Feb 27-9:18 AM