

$$\frac{b}{\sin(B)} = \frac{c}{\sin(C)} \rightarrow b = \frac{c}{\sin(C)} - \sin(B)$$

$$\frac{1}{107.6^{\circ}}$$
  $\frac{25.3}{\sin(107.6^{\circ})}$   $\sin(48.6^{\circ}) \approx 19.45$ 

Ex. Solve triangle ABC given 
$$\angle B = 38^{\circ}40^{\circ}$$
 $a = 19.7$ ;  $\angle C = 91^{\circ}40^{\circ}$  (ASA)

(Solved on the bound)

Area of a triangle

Area = 
$$\frac{1}{2}bc \cdot sin(A)$$
  
=  $\frac{1}{2}ac sin(B)$   
=  $\frac{1}{2}ab sin(C)$