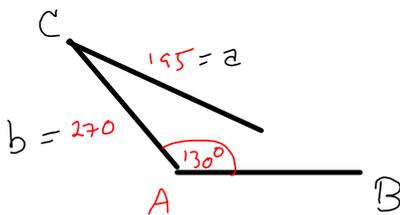


5. -/3 points LarTrig9 3.1.026.MI.

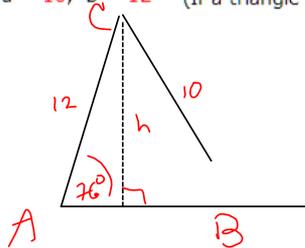
Use the Law of Sines to solve (if possible) the triangle. If two solutions exist, find both. Round your answers to two decimal places.

 $A = 130^\circ$, $a = 195$, $b = 270$ (If a triangle is not possible, enter IMPOSSIBLE in each corresponding answer blank.)

Impossible! A is obtuse, so a is
 \rightarrow longest side. But $a < b$ ✗
 No sol'n

6. -/3 points LarTrig9 3.1.027.

Use the Law of Sines to solve (if possible) the triangle. If two solutions exist, find both. Round your answers to two decimal places.

 $A = 76^\circ$, $a = 10$, $b = 12$ (If a triangle is not possible, enter IMPOSSIBLE in each corresponding answer blank.)

$$\frac{h}{12} = \sin 76^\circ$$

$$h = 12 \sin 76^\circ$$

$$\approx 11.64354872$$

$$> 10 = a$$

So a can't
 reach ground!

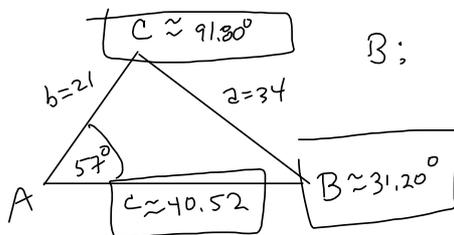
$12 \sin(76)$ 11.64354872

-3 points LarTrig9 3.1.028.

Use the Law of Sines to solve (if possible) the triangle. If two solutions exist, find both.

$A = 57^\circ, a = 34, b = 21$

Round your answers to two decimal places. (If not possible, enter IMPOSSIBLE.)



$B; \frac{\sin B}{b} = \frac{\sin A}{a}$

```
21sin(57)/34
.5180024096
sin^-1(Ans)
31.19835222
```

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

$= \frac{21 \sin 57^\circ}{34} \approx .5180024096 \approx \sin B$

$\Rightarrow B \approx 31.19835222$

$\Rightarrow 180^\circ - B - A$

$180^\circ - 31.19835222^\circ - 57^\circ \approx 91.80164778^\circ$

```
21sin(57)/34
.5180024096
sin^-1(Ans)
31.19835222
180-Ans-57
91.80164778
```

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

$c = \frac{a \sin C}{\sin A} \approx \frac{34 \sin(91.80164778^\circ)}{\sin 57^\circ}$

```
sin^-1(Ans)
31.19835222
180-Ans-57
91.80164778
34sin(Ans)/sin(57)
40.5203111
```

$\approx 40.5203111 \approx 40.52 \approx c$