

Oblique Δ 's:

Law of Sines:

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

①

$\frac{12}{\sin 30^\circ} = \frac{c}{\sin 105^\circ}$ or $\frac{17}{\sin 45^\circ} = \frac{c}{\sin 105^\circ}$

$\frac{12(\sin 105^\circ)}{\sin 30^\circ} = \frac{c(\sin 30^\circ)}{\sin 30^\circ}$

$23.2 = c$

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②

$\frac{10}{\sin 36^\circ} = \frac{c}{\sin 130.4^\circ}$

$\frac{10(\sin 130.4^\circ)}{\sin 36^\circ} = \frac{c(\sin 36^\circ)}{\sin 36^\circ}$

$c = 13$

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③ $C = 102.3^\circ$ $B = 28.7^\circ$
 $b = 27.4'$

②

~~$\frac{10}{\sin 36^\circ} = \frac{c}{\sin 130.4^\circ}$~~

~~$\frac{10(\sin 130.4^\circ)}{\sin 36^\circ} = \frac{c(\sin 36^\circ)}{\sin 36^\circ}$~~

$c = 13$

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③ $C = 102.3^\circ$
 $B = 28.7^\circ$
 $b = 27.4'$

$\frac{27.4}{\sin 28.7^\circ} = \frac{c}{\sin 102.3^\circ}$

$\frac{27.4(\sin 102.3^\circ)}{\sin 28.7^\circ} = \frac{c(\sin 28.7^\circ)}{\sin 28.7^\circ}$

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