



Trig Twisters

10/10

Name: _____
Date: _____

Directions: You and your partner will work together to solve these trigonometry-related problems. You solve the problems on the left and your partner will solve the problems on the right. When you are done, your answers will match – but the answers are NOT in the same order as the problems. Use your calculator and round answers to the nearest tenth unless stated otherwise.

Find $\sin A$ in $\triangle ABC$.

$\sin A = \frac{12}{13}$

What is the product of $\sin A$ and $\cos A$ in $\triangle ABC$?

$\sin A = \frac{12}{13}$
 $\cos A = \frac{5}{13}$
 Product = $\frac{12}{13} \cdot \frac{5}{13} = \frac{60}{169}$

In right triangle ABC , with right angle at B , the side $AC = 13$. Find A to the nearest degree.

$\sin A = \frac{5}{13}$
 $A \approx 23^\circ$

Find $\sin A$ in $\triangle ABC$.

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

What is the product of $\sin A$ and $\cos A$ in $\triangle ABC$?

$\sin A = \frac{12}{13}$
 $\cos A = \frac{5}{13}$
 Product = $\frac{12}{13} \cdot \frac{5}{13} = \frac{60}{169}$

Express $\sin A$ as a fraction.

$\sin A = \frac{12}{13}$

Express $\sin B$ as a fraction.

$\sin B = \frac{10}{13}$

In right triangle ABC , with right angle at B , the side $AC = 13$. Find B to the nearest degree.

$\sin B = \frac{12}{13}$
 $B \approx 67^\circ$