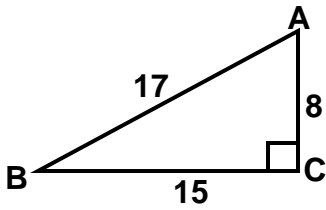


NAME _____ DATE _____ PER. _____

TRIGONOMETRIC RATIOS

Use the diagram to express each ratio as a fraction.



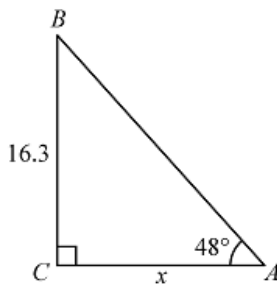
1. _____	sin A = ?	4. _____	sin B = ?
2. _____	cos A = ?	5. _____	cos B = ?
3. _____	tan A = ?	6. _____	tan B = ?

Find each of the following using your calculator. Round to the nearest thousandth.

7. _____	sin 3° = ?	9. _____	tan 48° = ?
8. _____	cos 30° = ?	10. _____	sin 79° = ?

11.

In the accompanying diagram of $\triangle ABC$, $m\angle C = 90^\circ$, $m\angle BAC = 48^\circ$, $AC = x$, and $CB = 16.3$ units.



Which equation could be used to find the length of \overline{AC} in units?

F $\sin 48^\circ = \frac{16.3}{x}$

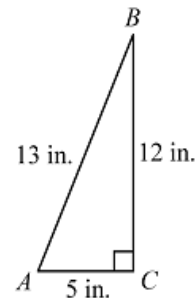
G $\cos 48^\circ = \frac{16.3}{x}$

H $\tan 48^\circ = \frac{x}{16.3}$

J $\tan 48^\circ = \frac{16.3}{x}$

12.

In the accompanying diagram, the legs of right triangle ABC measure 5 inches and 12 inches, and the hypotenuse measures 13 inches.



What is the value of $\cos A$?

A $\frac{5}{13}$

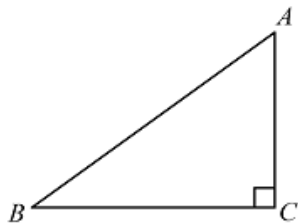
B $\frac{12}{5}$

C $\frac{12}{13}$

D $\frac{13}{5}$

13.

In the accompanying diagram of right triangle ABC , the hypotenuse is \overline{AB} , $AC = 3$ inches, $BC = 4$ inches, and $AB = 5$ inches.



Which of the following is equal to $\sin B$?

- A $\cos A$
- B $\tan A$
- C $\sin A$
- D $\cos B$

14.

In right triangle ABC , $m\angle C = 90^\circ$, and $\sin A = \frac{3}{5}$. What is the value of $\cos B$?

- F $\frac{3}{4}$
- G $\frac{3}{5}$
- H $\frac{4}{5}$
- J $\frac{4}{3}$

<p>15. $m\angle B =$ _____</p> <p>$x =$ _____</p> <p>$y =$ _____</p>	
<p>16. _____</p>	<p>Which of the following is not a correct trigonometric equation using the triangle below?</p> <ul style="list-style-type: none"> A. $\sin x = \frac{24}{25}$ B. $\cos y = \frac{24}{25}$ C. $\tan x = \frac{7}{25}$ D. Not Here