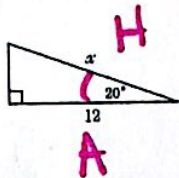


# Trig Practice

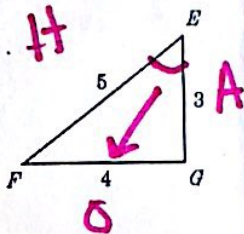
1. Which equation can be used to find the value of  $x$  in the right triangle shown?

- A.  $\cos 20^\circ = \frac{x}{12}$   
 B.  $\sin 20^\circ = \frac{12}{x}$   
 C.  $\cos 20^\circ = \frac{12}{x}$   
 D.  $\cos 70^\circ = \frac{x}{12}$



3. In the accompanying diagram, what is  $\sin E$ ?

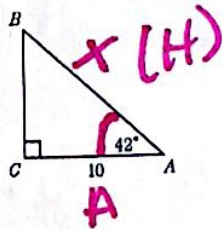
- A.  $\frac{3}{4}$     B.  $\frac{4}{3}$   
 C.  $\frac{3}{5}$      D.  $\frac{4}{5}$



SOH CAH TOA  
 3/5

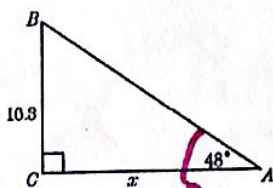
5. In the accompanying diagram,  $m\angle C = 90$ ,  $m\angle A = 42$ , and  $CA = 10$ . Which equation can be used to find  $AB$ ?

- A.  ~~$\tan 42^\circ = \frac{10}{AB}$~~   
 B.  ~~$\tan 42^\circ = \frac{AB}{10}$~~   
 C.  ~~$\cos 42^\circ = \frac{AB}{10}$~~   
 D.  $\cos 42^\circ = \frac{10}{AB}$



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

Which equation could be used to find the length of  $AC$ ?

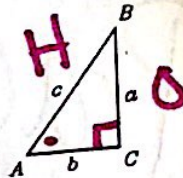


- A.  ~~$\sin 48 = \frac{16.3}{x}$~~     B.  ~~$\cos 48 = \frac{x}{16.3}$~~   
 C.  $\tan 48 = \frac{16.3}{x}$     D.  $\tan 48 = \frac{x}{16.3}$

Name: \_\_\_\_\_

2. In the accompanying diagram of right triangle  $ABC$ ,  $\angle C$  is a right angle. Which equation is valid for  $\triangle ABC$ ?

- A.  $\cos A = \frac{c}{b}$     B.  $\tan A = \frac{b}{a}$   
 C.  $\sin A = \frac{a}{c}$     D.  $\cos B = \frac{a}{b}$

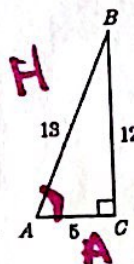


4. In the accompanying diagram, the legs of right triangle  $ABC$  are 5 and 12 and the hypotenuse is 13.

What is the value of  $\cos A$ ?

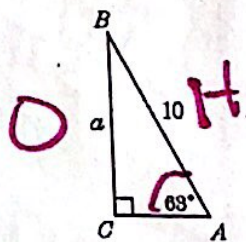
- A.  $\frac{12}{13}$     B.  $\frac{13}{5}$   
 C.  $\frac{5}{13}$     D.  $\frac{12}{5}$

$\frac{5}{13}$



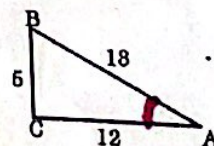
6. In right triangle  $ABC$ ,  $m\angle C = 90$ ,  $m\angle A = 63$ , and  $AB = 10$ . If  $BC$  is represented by  $a$ , then which equation can be used to find  $a$ ?

- A.  $\sin 63^\circ = \frac{a}{10}$   
 B.  $a = 10 \cos 63^\circ$   
 C.  $\tan 63^\circ = \frac{a}{10}$   
 D.  $a = \tan 27^\circ$



8. In the accompanying diagram of  $\triangle ABC$ , which expression can be used to determine  $m\angle A$ ?

- A.  ~~$\sin A = \frac{12}{13}$~~   
 B.  ~~$\cos A = \frac{12}{5}$~~   
 C.  ~~$\cos A = \frac{5}{13}$~~   
 D.  $\tan A = \frac{5}{12}$



# Trig Practice

Name: \_\_\_\_\_

## Trigonometry Practice

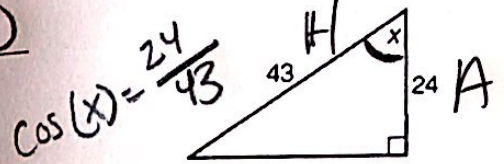
1.  $\sin(40) = 0.643$

2.  $\tan(x) = 0.6745$

3.  $x = 56.07$

$\sin(x) = 4/7$

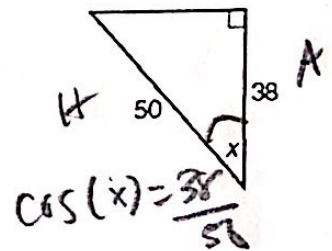
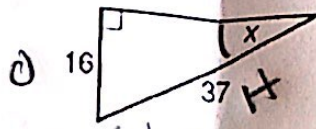
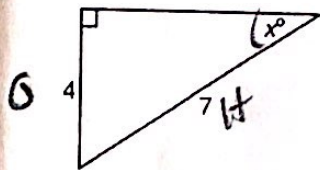
$x = 34.0$



4.  $x = 34.85$

5.  $x = 25.62$

6.  $x = 40.54$



$\sin(x) = 16/37$

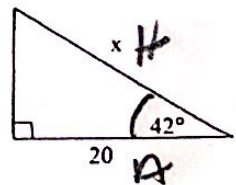
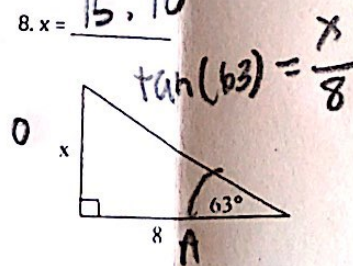
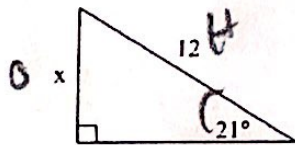
$\cos(x) = 38/50$

7.  $x = 4.30$

8.  $x = 15.70$

9.  $x = 26.91$

$\cos(42) = \frac{20}{x}$



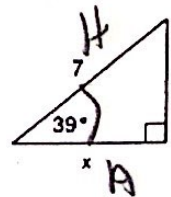
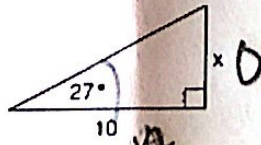
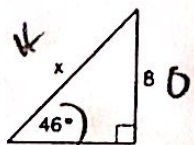
$\sin(21) = x/12$

$\tan(63) = \frac{x}{8}$

10.  $x = 11.12$

11.  $x = 5.10$

12.  $x = 5.44$



$\sin(46) = \frac{8}{x}$

$\tan(27) = \frac{x}{10}$

$\cos(39) = \frac{x}{7}$