EOCT REVIEW

Name KEY

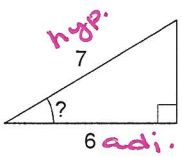
ID: 1

RIGHT TRIANGLES

Date _____ Period ____

Find the measure of the indicated angle to the nearest degree.

1)

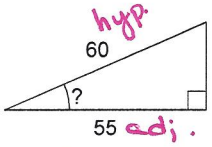


$\cos^{-1}\cos[?] = \cos^{-1}\frac{6}{7}$

$? = \cos^{-1}\left(\frac{6}{7}\right)$

A) 49° B) 41°
C) 31° D) 59°

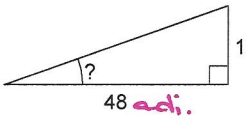
2)



$? = \cos^{-1}\left(\frac{55}{60}\right)$

A) 15° B) 24°
C) 47° D) 34°

3)

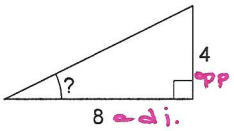


$\tan^{-1}\tan[?] = \tan^{-1}\frac{17}{48}$

$? = \tan^{-1}\left(\frac{17}{48}\right)$

A) 20° B) 69°
C) 70° D) 33°

4)

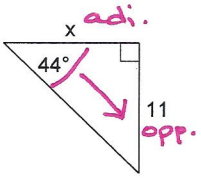


$? = \tan^{-1}\left(\frac{4}{8}\right)$

A) 60° B) 27°
C) 30° D) 48°

Find the missing side. Round to the nearest tenth.

5)

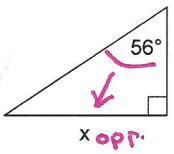


$\tan 44 = \frac{11}{x}$

$x = \frac{11}{\tan 44}$

A) 10.6 B) 17.1
C) 11.4 D) 9.5

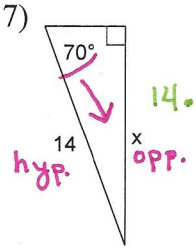
6)



$12 \cdot \tan 56 = \frac{x}{12} \cdot 12$

A) 8.1 B) 13.9
C) 12.5 D) 17.8

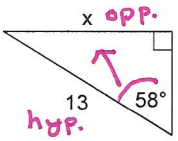
7)



$14 \cdot \sin 70 = \frac{x}{14} \cdot 14$

A) 14.9 B) 13.2
C) 10.6 D) 9.6

8)

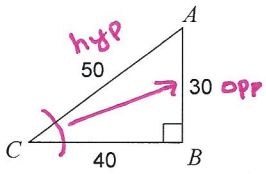


$13 \cdot \sin 58 = \frac{x}{13} \cdot 13$

A) 8.2 B) 14.0
C) 15.3 D) 11.0

Find the value of each trigonometric ratio.

9) sin C



A) $\frac{5}{3}$ B) $\frac{3}{5}$

C) $\frac{4}{3}$ D) $\frac{5}{4}$

Find the value of each trigonometric ratio to the nearest ten-thousandth.

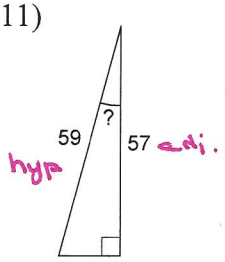
10) sin 72°

A) 0.9511 B) 5.6713

C) 0.1736 D) 0.9848

Find the measure of the indicated angle to the nearest degree.

11)

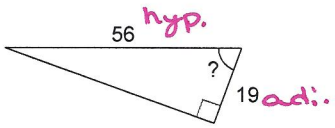


$\angle ? = \cos^{-1}\left(\frac{57}{59}\right)$

A) 44° B) 15°

C) 20° D) 46°

12)



$\angle ? = \cos^{-1}\left(\frac{19}{56}\right)$

A) 20° B) 70°

C) 19° D) 71°

Find each angle measure to the nearest degree.

13) cos A = 0.9976 $\longrightarrow$ $A = \cos^{-1}(0.9976)$

A) 7° B) 2°

C) 1° D) 4°