

Solving Angles

03/03/2017

Trigonometry Assignment # 2

Date _____

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

1) $\sin 31^\circ$

0.51503

2) $\tan 33^\circ$

0.64940

3) $\tan 85^\circ$

11.4301

4) $\cos 65^\circ$

0.42261

5) $\cos 88^\circ$

0.03489

6) $\cos 75^\circ$

0.25882

7) $\sin 33^\circ$

0.54462

8) $\tan 54^\circ$

1.37638

9) $\sin 54^\circ$

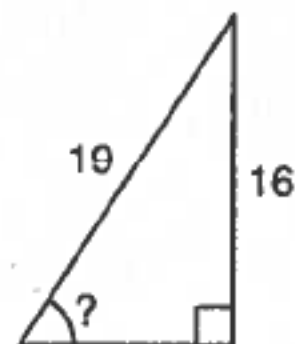
0.80902

10) $\cos 78^\circ$

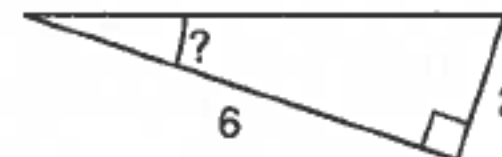
0.20791

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

11)



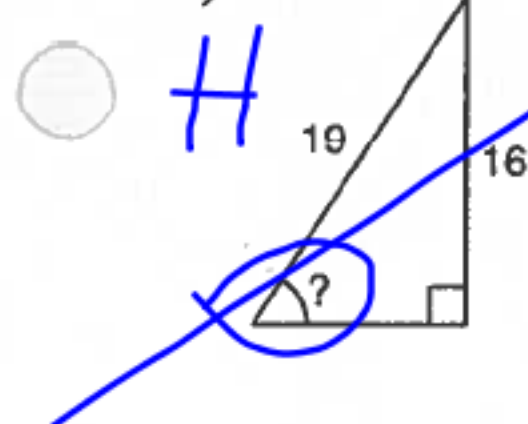
12)



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

SOHCAHTOA

11)



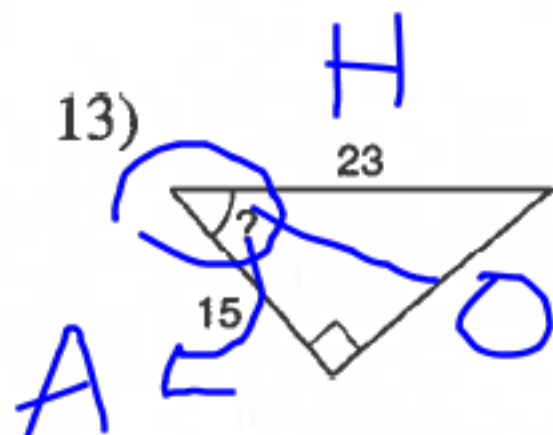
12)



$$\tan \theta = \frac{O}{A}$$

$$\tan \theta = \frac{2}{6}$$

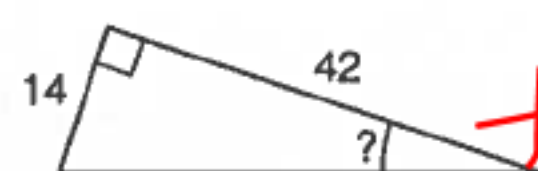
13)



$$\cos \theta = \frac{A}{H}$$

$$\cos \theta = \frac{15}{23}$$

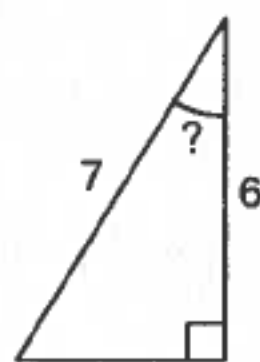
14)



$$\tan \theta = \frac{O}{A}$$

$$\tan \theta = \frac{14}{42}$$

15)



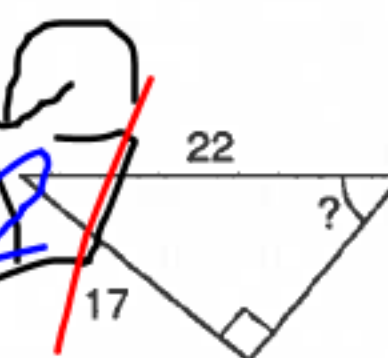
$$\cos \theta = \frac{A}{H}$$

$$\cos \theta = \frac{6}{7}$$

$$\theta = 49.29$$

$$\theta = 49^\circ$$

16)



$$\cos \theta = \frac{A}{H}$$

$$\cos \theta = \frac{17}{22}$$

$$\theta = 18.41$$

$$\theta = 18^\circ$$