

8.1 Intro to Trigonometry

1) Explain what a trigonometric ratio is.

2) For reference angle α :

The opposite side is _____

The adjacent side is _____

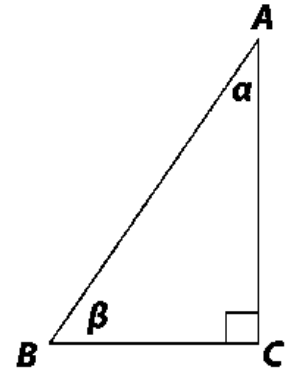
The hypotenuse is _____

3) For reference angle β :

The opposite side is _____

The adjacent side is _____

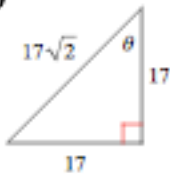
The hypotenuse is _____



4) What is the relationship of α and β for any right triangle?

Find the value of the trig function indicated.

5) $\tan \theta$



6) $\cos \theta$



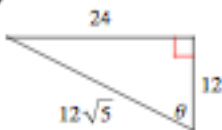
7) $\sin \theta$



8) $\sin \theta$



9) $\cos \theta$



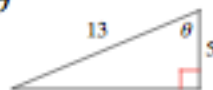
10) $\tan \theta$



11) $\sin \theta$



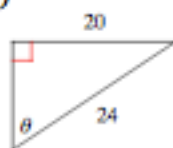
12) $\sin \theta$



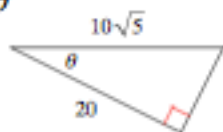
13) $\sin \theta$



14) $\sin \theta$



15) $\tan \theta$



16) $\cos \theta$



17) Find $\sin \theta$ if $\tan \theta = \frac{23}{7}$

18) Find $\tan \theta$ if $\sin \theta = \frac{7}{25}$

19) Find $\tan \theta$ if $\cos \theta = \frac{1}{4}$

20) Find $\cos \theta$ if $\sin \theta = \frac{\sqrt{2}}{2}$