Trigonometry

Name:_____   Date:_____

Find the trigonometric ratios.

1)   If secθ = $\frac{5}{3}$, Find cosecθ.

cosecθ = $\frac{5}{4}$
_____

2)   If tanθ = $\frac{1}{2}$, Find secθ.

_____

3)   If sinθ = $\frac{8}{17}$, Find cosθ.

_____

4)   If cotθ = $\frac{11}{60}$, Find cosecθ.

_____

5)   If tanθ = $\frac{3}{2}$, Find cosecθ.

_____

6)   If cosecθ = $\frac{41}{40}$, Find secθ.

_____

7)   If secθ = $\frac{24}{25}$, Find cotθ.

_____

8)   If sinθ = $\frac{9}{15}$, Find cosθ.

_____

9)   If sinθ = $\frac{2}{\sqrt{20}}$, Find secθ.

_____

10)   If cosθ = $\frac{5}{13}$, Find tanθ.

_____

Trigonometry

Name:_____

Find the trigonometric ratios.

1) If $\sec\theta = \frac{5}{3}$, Find $\text{cosec}\theta$.

$$\text{cosec}\theta = \frac{5}{4}$$

2) If $\tan\theta = \frac{1}{2}$, Find $\sec\theta$.

$$\sec\theta = \frac{\sqrt{5}}{2}$$

3) If $\sin\theta = \frac{8}{17}$, Find $\cos\theta$.

$$\cos\theta = \frac{15}{17}$$

4) If $\cot\theta = \frac{11}{60}$, Find $\text{cosec}\theta$.

$$\text{cosec}\theta = \frac{61}{60}$$

5) If $\tan\theta = \frac{3}{2}$, Find $\text{cosec}\theta$.

$$\text{cosec}\theta = \frac{\sqrt{13}}{3}$$

6) If $\text{cosec}\theta = \frac{41}{40}$, Find $\sec\theta$.

$$\sec\theta = \frac{41}{9}$$

7) If $\sec\theta = \frac{24}{25}$, Find $\cot\theta$.

$$\cot\theta = \frac{7}{24}$$

8) If $\sin\theta = \frac{9}{15}$, Find $\cos\theta$.

$$\cos\theta = \frac{12}{15}$$

9) If $\sin\theta = \frac{2}{\sqrt{20}}$, Find $\sec\theta$.

$$\sec\theta = \frac{\sqrt{20}}{4}$$

10) If $\cos\theta = \frac{5}{13}$, Find $\tan\theta$.

$$\tan\theta = \frac{12}{5}$$