

Six Trigonometric Ratios

Use the given point on the terminal side of an angle θ in standard position to find the exact values of six trigonometric ratios.

$$\sin \theta = \underline{\hspace{2cm}} \qquad \operatorname{cosec} \theta = \underline{\hspace{2cm}}$$

1) $(-8, 15)$ $\cos \theta = \underline{\hspace{2cm}}$ $\sec \theta = \underline{\hspace{2cm}}$

$$\tan \theta = \underline{\hspace{2cm}} \qquad \cot \theta = \underline{\hspace{2cm}}$$

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2) $(2, 1)$

3) $(12, -9)$

$$\sin \theta = \underline{\hspace{2cm}} \qquad \operatorname{cosec} \theta = \underline{\hspace{2cm}}$$

4) $(-14, -48)$ $\cos \theta = \underline{\hspace{2cm}}$ $\sec \theta = \underline{\hspace{2cm}}$

$$\tan \theta = \underline{\hspace{2cm}} \qquad \cot \theta = \underline{\hspace{2cm}}$$

Six Trigonometric Ratios

Use the given point on the terminal side of an angle θ in standard position to find the exact values of six trigonometric ratios.

$$\sin \theta = \frac{15}{17} \qquad \operatorname{cosec} \theta = \frac{17}{15}$$

1) $(-8, 15)$ $\cos \theta = \frac{-8}{17} \qquad \sec \theta = \frac{-17}{8}$

$$\tan \theta = \frac{-15}{8} \qquad \cot \theta = \frac{-8}{15}$$

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$$\sqrt{5}$$

$$\frac{\sqrt{5}}{2}$$

$$2$$

$$-\frac{5}{3}$$

$$\frac{5}{4}$$

$$-\frac{4}{3}$$

2) $(2, 1)$

3) $(12, -9)$

$$\sin \theta = \frac{-24}{25} \qquad \operatorname{cosec} \theta = \frac{-25}{24}$$

4) $(-14, -48)$ $\cos \theta = \frac{-7}{25} \qquad \sec \theta = \frac{-25}{7}$

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