

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) (40, 9)

$$\cos \theta = \underline{\hspace{2cm}} \qquad \sec \theta = \underline{\hspace{2cm}}$$

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

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2) (-20, 21)

3) (-6, -18)

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

4) (4, -3)

$$\cos \theta = \underline{\hspace{2cm}} \qquad \sec \theta = \underline{\hspace{2cm}}$$

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

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.

$$\sin \theta = \frac{9}{41} \qquad \operatorname{cosec} \theta = \frac{41}{9}$$

1) (40, 9) $\cos \theta = \frac{40}{41} \qquad \sec \theta = \frac{41}{40}$

$$\tan \theta = \frac{9}{40} \qquad \cot \theta = \frac{40}{9}$$

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$$\frac{29}{21}$$

$$-\frac{29}{20}$$

$$-\frac{20}{21}$$

$$-\frac{\sqrt{10}}{3}$$

$$-\sqrt{10}$$

$$\frac{1}{3}$$

$$\sin \theta = -\frac{3}{5} \qquad \operatorname{cosec} \theta = -\frac{5}{3}$$

4) (4, -3) $\cos \theta = \frac{4}{5} \qquad \sec \theta = \frac{5}{4}$

$$\tan \theta = -\frac{3}{4} \qquad \cot \theta = -\frac{4}{3}$$