

Name : _____

Six Trigonometric Ratios

Angle: S1

Use the unit circle to find the exact values of six trigonometric ratios.

1) $\theta = 300^\circ$

2) $\theta = \frac{3\pi}{4}$

3) $\theta = 180^\circ$

4) $\theta = \frac{4\pi}{3}$

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Six Trigonometric Ratios

Use the unit circle to find the exact values of six trigonometric ratios.

1) $\theta = 300^\circ$

$\sin \theta = -\frac{\sqrt{3}}{2}$

$\operatorname{cosec} \theta = -\frac{2\sqrt{3}}{3}$

$\cos \theta = \frac{1}{2}$

$\sec \theta = 2$

$\tan \theta = -\sqrt{3}$

$\cot \theta = -\frac{\sqrt{3}}{3}$

2) $\theta = \frac{3\pi}{4}$

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3) $\theta = 180^\circ$

4) $\theta = \frac{4\pi}{3}$

$\sin \theta = -\frac{\sqrt{3}}{2}$

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$\cos \theta = -\frac{1}{2}$

$\sec \theta = -2$

$\tan \theta = \sqrt{3}$

$\cot \theta = \frac{\sqrt{3}}{3}$