

Name : _____

Angle: S2

Six Trigonometric Ratios

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

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

2) $\theta = 315^\circ$

3) $\theta = \frac{5\pi}{6}$

4) $\theta = 210^\circ$

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

Name : _____

Answer key

Angle: S2

Six Trigonometric Ratios

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

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

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

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

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

$$\sec \theta = 2$$

2) $\theta = 315^\circ$

3) $\theta = \frac{5\pi}{6}$

4) $\theta = 210^\circ$

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

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

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

$$\operatorname{cosec} \theta = -2$$

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

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

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

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

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com