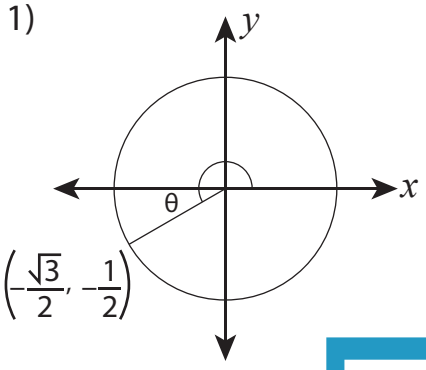
Name : _____

Point: S2

Six Trigonometric Ratios

Find the exact values of six trigonometric ratios using the point on the unit circle.

1)

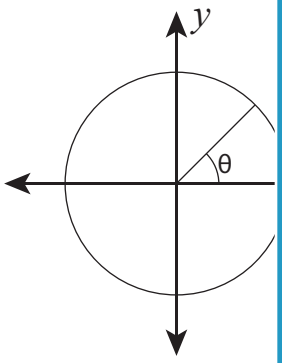


sin θ = _____ cosec θ = _____

cos θ = _____ sec θ = _____

tan θ = _____ cot θ = _____

2)

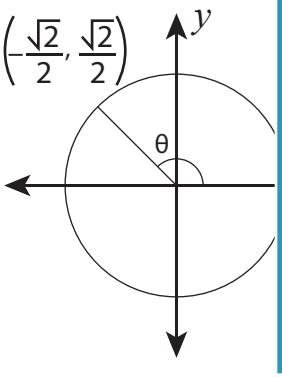


θ = _____

θ = _____

θ = _____

3)



θ = _____

θ = _____

θ = _____

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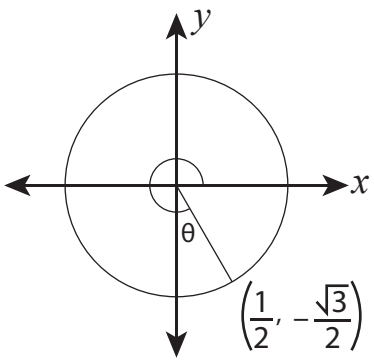
4)



sin θ = _____ cosec θ = _____

cos θ = _____ sec θ = _____

tan θ = _____ cot θ = _____

Name : _____

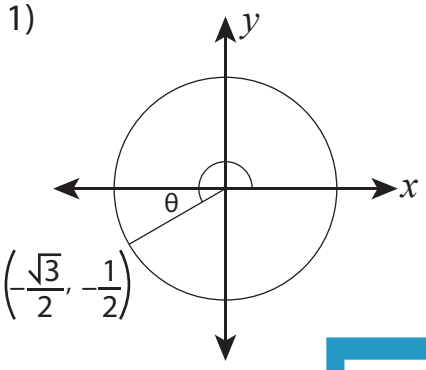
Answer key

Six Trigonometric Ratios

Point: S2

Find the exact values of six trigonometric ratios using the point on the unit circle.

1)

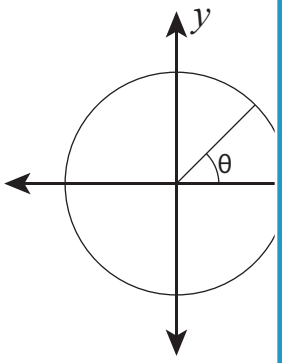


sin θ = $-\frac{1}{2}$ cosec θ = -2

cos θ = $-\frac{\sqrt{3}}{2}$ sec θ = $-\frac{2\sqrt{3}}{3}$

tan θ = $\frac{\sqrt{3}}{3}$ cot θ = $\sqrt{3}$

2)

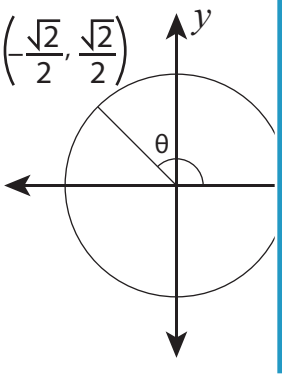


θ = $\sqrt{2}$

θ = $\sqrt{2}$

θ = 1

3)



θ = $\sqrt{2}$

θ = $-\sqrt{2}$

θ = -1

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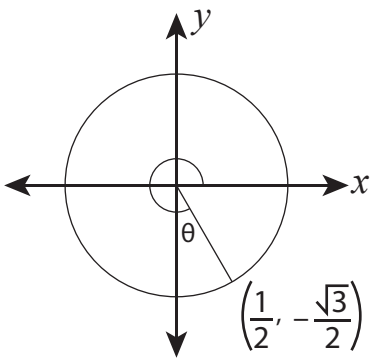
4)



sin θ = $-\frac{\sqrt{3}}{2}$ cosec θ = $-\frac{2\sqrt{3}}{3}$

cos θ = $\frac{1}{2}$ sec θ = 2

tan θ = $-\sqrt{3}$ cot θ = $-\frac{\sqrt{3}}{3}$