



Verbal	Graphical
$\theta = -\frac{7\pi}{4}$ <p>What quadrant is the terminal side of <math>\theta</math> in? <u>I</u></p> <p>Is <math>\theta</math> a quadrantal angle? <u>no</u></p> <p><i>Thought bubble:</i> <math>\theta = \pi/4 - 8\pi/4</math> 😊</p>	<p>Sketch <math>\theta</math> and the reference angle or indicate the position of the quadrantal.</p>

Reference Angle	Values of Trig Functions
<p>Calculate the value of the reference angle of <math>\theta</math> or name the axis of the quadrantal.</p> <p><math>\alpha = \pi/4 (45^\circ)</math></p> <p>Does <math>\alpha</math> correspond to an angle that is part of a special right triangle? <u>yes</u></p> <p>If yes, sketch the special right triangle with the appropriate labels.</p>	<p>Calculate the values of the six trigonometric functions of the angle <math>\theta</math>.</p> <p><math>\sin \theta = \frac{x}{x\sqrt{2}} = \frac{1}{\sqrt{2}} \rightarrow \csc \theta = \sqrt{2}</math></p> <p><math>\cos \theta = \frac{x}{x\sqrt{2}} = \frac{1}{\sqrt{2}} \rightarrow \sec \theta = \sqrt{2}</math></p>

Verbal	Graphical
$\theta = \frac{\pi}{2}$ <p>What quadrant is the terminal side of <math>\theta</math> in? <u>N/A</u></p> <p>Is <math>\theta</math> a quadrantal angle? <u>yes</u></p>	<p>Sketch <math>\theta</math> and the reference angle or indicate the position of the quadrantal.</p> <p><math>\theta</math> is on positive y-axis</p>

Reference Angle	Values of Trig Functions
<p>Calculate the value of the reference angle of <math>\theta</math> or name the axis of the quadrantal.</p> <p><math>\alpha = \text{y-axis (positive)}</math></p> <p>Does <math>\alpha</math> correspond to an angle that is part of a special right triangle? <u>no</u></p> <p>If yes, sketch the special right triangle with the appropriate labels.</p>	<p>Calculate the values of the six trigonometric functions of the angle <math>\theta</math>.</p> <p><math>\sin \theta = 1 \quad \csc \theta = 1</math></p> <p><math>\cos \theta = 0 \quad \sec \theta = \text{DNE}</math></p> <p><math>\tan \theta = \frac{1}{0} = \text{DNE} \quad \cot \theta = 0</math></p>