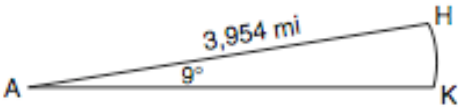


<p>1. a) Convert <math>\frac{5\pi}{3}</math> to degree measure.</p> <p>b) Find <math>\cos\left(\frac{5\pi}{3}\right)</math>.</p>		1.
<p>2. If <math>\sin\theta</math> is negative and <math>\cos\theta</math> is negative, in which quadrant does the terminal side of <math>\theta</math> lie?</p> <p>(1) I                      (3) III (2) II                      (4) IV</p>	<p>3. If <math>\sin\theta &gt; 0</math> and <math>\sec\theta &lt; 0</math>, in which quadrant does the terminal side of angle <math>\theta</math> lie?</p> <p>(1) I                      (3) III (2) II                      (4) IV</p>	2.
<p>4. Find the exact value of <math>\tan 225^\circ</math>.</p>	<p>5. Find the exact value of <math>\sin 330^\circ</math>.</p>	3.
<p>6. Cities <math>H</math> and <math>K</math> are located on the same line of longitude and the difference in the latitude of these cities is <math>9^\circ</math>, as shown in the accompanying diagram. If Earth's radius is 3,954 miles, how many miles north of city <math>K</math> is city <math>H</math> along arc <math>HK</math>? Round your answer to the nearest tenth of a mile.</p>  <p style="text-align: center;">(Not drawn to scale)</p>		4.
<p>7. In which quadrant(s) does the graph of <math>y = \frac{-8}{x}</math> lie?</p>	<p>8. The expression <math>\log \frac{\sqrt{xy}}{w}</math> is equivalent to</p> <p>(1) <math>\frac{2 \log xy}{\log w}</math> (2) <math>\log x + \log y - \log w</math> (3) <math>\frac{1}{2}(\log x + \log y) - \log w</math> (4) <math>\frac{1}{2}(\log xy - \log w)</math></p>	5.
		6.
		7.
		8.