

Problem Set

1. Evaluate the following trigonometric expressions.

<p>a. $\cos\left(\frac{2\pi}{3}\right) = -\frac{1}{2}$ Quad: 2</p> <p>b. $\cos\left(\frac{-3\pi}{4}\right) = -\frac{\sqrt{2}}{2}$ Quad: 3</p> <p>c. $\sin\left(\frac{11\pi}{6}\right) = -\frac{1}{2}$ Quad: 4</p> <p>d. $\sin\left(\frac{5\pi}{3}\right) = -\frac{\sqrt{3}}{2}$ Quad: 4</p> <p>e. $\tan\left(\frac{-5\pi}{6}\right) = \frac{\sqrt{3}}{3}$ Quad: 3</p> <p>f. $\tan\left(\frac{-\pi}{6}\right) = -\frac{\sqrt{3}}{3}$ Quad: 4</p> <p>g. $\cos\left(\frac{7\pi}{4}\right) = \frac{\sqrt{2}}{2}$ Quad: 4</p> <p>h. $\sin\left(\frac{-11\pi}{6}\right) = \frac{1}{2}$ Quad: 1</p>	<p>i. $\cos\left(\frac{17\pi}{3}\right) = \frac{1}{2}$ $4\pi + \frac{5\pi}{3}$ Quad: 4</p> <p>j. $\cos\left(\frac{9\pi}{4}\right) = \frac{\sqrt{2}}{2}$ $2\pi + \frac{\pi}{4}$ Quad: 1</p> <p>k. $\sin\left(\frac{13\pi}{6}\right) = \frac{1}{2}$ $2\pi + \frac{\pi}{6}$ Quad: 1</p> <p>l. $\sin\left(\frac{10\pi}{3}\right) = -\frac{\sqrt{3}}{2}$ $2\pi + \frac{4\pi}{3}$ Quad: 3</p> <p>m. $\tan\left(\frac{15\pi}{6}\right) = 0$ $2\pi + \frac{3\pi}{6}$ $2\pi + \frac{\pi}{2}$ 1st/2nd Quad</p> <p>n. $\tan\left(\frac{23\pi}{6}\right) = -\frac{\sqrt{3}}{3}$ $2\pi + \frac{11\pi}{6}$ Quad: 4</p> <p>o. $\cos\left(\frac{15\pi}{4}\right) = \frac{\sqrt{2}}{2}$ $2\pi + \frac{7\pi}{4}$ Quad: 4</p> <p>p. $\sin\left(\frac{17\pi}{6}\right) = \frac{1}{2}$ $2\pi + \frac{5\pi}{6}$ Quad: 2</p>
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