

More problems for section 4.2 of *Essentials of Precalculus with Calculus Previews* by Zill and Dewar, 5e.

1. Find the sine and cosine of each of the following angles without a calculator, and state your answers in exact form. *Check* your answers on a calculator using $\frac{1}{\sqrt{2}} \approx 0.707$ and $\frac{\sqrt{3}}{2} \approx .866$.

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|------------------------|-----------------------|------------------------|------------------------|------------------------|
| a. -314π | b. 187π | c. $\frac{15\pi}{4}$ | d. $\frac{-23\pi}{6}$ | e. $\frac{19\pi}{3}$ |
| f. $\frac{-43\pi}{3}$ | g. $\frac{17\pi}{2}$ | h. $\frac{-19\pi}{4}$ | i. $\frac{34\pi}{6}$ | j. $\frac{-25\pi}{3}$ |
| k. $\frac{99\pi}{4}$ | l. $\frac{-36\pi}{3}$ | m. $\frac{45\pi}{2}$ | n. $\frac{-117\pi}{6}$ | o. $\frac{123\pi}{2}$ |
| p. $\frac{-125\pi}{6}$ | q. $\frac{237\pi}{3}$ | r. $\frac{-170\pi}{2}$ | s. $\frac{142\pi}{6}$ | t. $\frac{-159\pi}{2}$ |