Precalculus: Trigonometric Functions

Name _____ **Date** _____

Find the trigonometric value of the special angles given in radians

(1) $\sec \pi$

(2) $\cot 0$

(3) $\sec \frac{7\pi}{6}$

(4) $\csc \frac{2\pi}{3}$

(5) $\sin \frac{\pi}{6}$

(6) $\csc \frac{2\pi}{3}$

(7) $\sin \pi$

(8) $\tan \frac{\pi}{2}$

(9) $\sin \frac{7\pi}{4}$

(10) $\cot \pi$

(11) $\sin \frac{2\pi}{3}$

(12) $\csc \frac{\pi}{3}$

Answers

Find the trigonometric value of the special angles given in radians

(1) $\sec \pi$

$= -1$

(2) $\cot 0$

$= \infty$

(3) $\sec \frac{7\pi}{6}$

$= -\frac{2\sqrt{3}}{3}$

(4) $\csc \frac{2\pi}{3}$

$= \frac{2\sqrt{3}}{3}$

(5) $\sin \frac{\pi}{6}$

$= \frac{1}{2}$

(6) $\csc \frac{2\pi}{3}$

$= \frac{2\sqrt{3}}{3}$

(7) $\sin \pi$

$= 0$

(8) $\tan \frac{\pi}{2}$

$= \infty$

(9) $\sin \frac{7\pi}{4}$

$= -\frac{\sqrt{2}}{2}$

(10) $\cot \pi$

$= \infty$

(11) $\sin \frac{2\pi}{3}$

$= \frac{\sqrt{3}}{2}$

(12) $\csc \frac{\pi}{3}$

$= \frac{2\sqrt{3}}{3}$